



CITY OF WINNIPEG
HEALTH DEPARTMENT

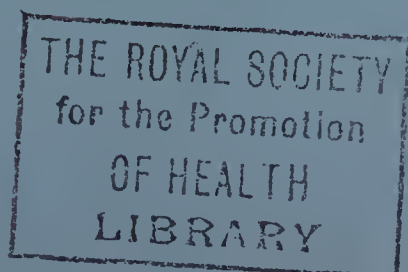


ANNUAL REPORT
of the
MEDICAL HEALTH OFFICER

YEAR 1957

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R. G. Cadham, M.D., D.P.H.



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CITY HEALTH DEPARTMENT

Winnipeg, 1958.

Chairman and Members,
Committee on Public Health and Welfare.

Madam and Gentlemen:

I have the honour to present the annual report of the Health Department for the year 1957. During the year a number of changes in personnel occurred. Dr. M.S. Lougheed, Medical Health Officer since 1939, retired on pension on February 28, 1957 and Dr. R.G. Cadham was appointed Medical Health Officer. Dr. J.B. Morison, Assistant Medical Officer was appointed Deputy Medical Health Officer on March 1, 1957. Dr. C.H. McCormick was appointed full-time Director of Child Dental Services on August 16, 1957, a position which was formerly on a part-time basis and had been vacant for some time. Dr. W. Turnbull, part-time District Physician, retired on April 30, 1957 after some forty-five years service with the Department. We regret to record that Dr. Turnbull died in September only a few months after his retirement.

In the fall of 1956 a by-law to regulate the operations of Welfare Institutions was passed by City Council. The effect of these new regulations became apparent in 1957 when great improvement occurred in the way of staff and facilities in Nursing Homes.

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Diphtheria, Tetanus and Smallpox Vaccines were given to all school pupils up to Grade VIII who had not been previously immunized. The Salk Vaccine program was completed for all school pupils up to Grade XII and continues to be given in the Child Health Centres to infants, pre-school children and expectant mothers.

The registry for handicapped children was expanded and now includes facilities for a thorough study of children with obscure cardiac murmurs, epilepsy, hearing loss, diabetes or severe visual defect. The results of the investigation of the latter resulted in twenty-three children being recommended for a special vision class.

On the following pages are recorded in detail the activities of the Health Department for the year 1957.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "R. H. Badham".

Medical Health Officer.

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COMMITTEE ON HEALTH

Alderman Lillian Hallonquist, Chairman
Alderman Maude J. McCreery
Alderman J. Cowan
Alderman D. Orlikow
Alderman J. Penner
Alderman G. R. Fines
His Worship Mayor Juba (ex-officio)

STAFF

Medical Health Officer R. G. Cadham, M.D., D.P.H.
Deputy Medical Health Officer J. B. Morison, M.D.
Consultant, Child Care Services H. Medovy, M.D.
Oculist J. McGillivray, M.D.
Medical Supervisor in Nursing Homes G. McInnis, M.D.
Medical Supervisor in Nursing Homes A. Campbell, M.D.
Director - Child Dental Services C. H. McCormick, D.D.S.,
D.D.P.H.
Director, Public Health Nursing Miss L. MacKenzie, R.N.,
M.A., P.D.
Chief Health Inspector E. J. Rigby, D.V.M.

1. The first part of the paper is devoted to a general discussion of the problem.

2. In the second part, we shall consider the case of a homogeneous medium. The results obtained in this part are of great importance for the theory of the propagation of waves in a homogeneous medium.

3. Results

3.1. The first result is that the wave function ψ satisfies the equation $\Delta \psi = 0$ in the region V . This is a well-known result, but it is important to note that it holds for all values of the parameters ϵ and μ .

3.2. The second result is that the wave function ψ is continuous across the interface S . This is also a well-known result, but it is important to note that it holds for all values of the parameters ϵ and μ .

3.3. The third result is that the normal derivative of the wave function ψ is discontinuous across the interface S . This is a new result, and it is important to note that it holds for all values of the parameters ϵ and μ .

3.4. The fourth result is that the wave function ψ is bounded in the region V . This is a well-known result, but it is important to note that it holds for all values of the parameters ϵ and μ .

3.5. The fifth result is that the wave function ψ is unique in the region V . This is a well-known result, but it is important to note that it holds for all values of the parameters ϵ and μ .

History

From a Hudson's Bay Company trading post (Fort Garry) in 1870, with a population of 215, Winnipeg has grown to the size and finish of a first-class city of approximately 255,000 people. When the City was incorporated in 1873 there was a population of 1,869.

The present Health Department may be said to date from 1900 when the late Dr. A. J. Douglas was appointed the first full time Health Officer.

From 1881 to 1900 Winnipeg had a series of part time Medical Health Officers.

In 1941 amalgamation with the School Medical Services occurred and the services increase and extended to all child caring institutions in the City without distinction. This applies to Medical, Dental and Nursing Services.

The Child Health Services Board was set up to help the Department in a consultative manner, meetings being held at the call of the Chairman. This Board was replaced in 1955 by a monthly meeting of the administrative Officers of the School Board and the Health Department.

The Department has now several Branches to carry out the provisions of the Public Health Act of Manitoba, the Health By-law of the City and a number of other City By-laws.

Area and Population

The City covers a total area of 25 square miles ---- land 24.27 square miles (15,535 acres), and water .73 square miles (465 acres). The density of the population is 16.0 persons per acre of land.

For statistical purposes the population for 1957 is 254,612, as determined by the Assessment Commissioner. This figure shows an increase of 582 over the 1956 figure of 254,030. However, the natural increase in 1957 (live births less deaths) shows an increase of 3,516.

Vital Statistics As Registered in Winnipeg, 1957

(Including Non-Residents)

| | <u>1957</u> | <u>1956</u> |
|----------------------------|-------------|-------------|
| Live Births | 8,829 | 8,747 |
| Deaths | 2,871 | 2,634 |
| Infant Deaths | 246 | 216 |
| Stillbirths | 134 | 117 |
| Puerperal Deaths | 2 | 1 |

Summary of Vital Statistics, Residents, 1957

| | | <u>1957</u> | <u>1956</u> |
|-------------------------------|--------|-------------|-------------|
| <u>Live Births</u> | Male | 3,099 | 3,025 |
| | Female | 2,967 | 2,883 |
| | Total | 6,067/ | 5,908 |
| Rate per 1,000 Population | | 25.8 | 23.3 |
| <u>Deaths</u> | Male | 1,502 | 1,467 |
| | Female | 1,048 | 971 |
| | Total | 2,551/ | 2,438 |
| Rate per 1,000 Population | | 10.0 | 9.6 |
| Natural Increase | | 3,516 | 3,470 |
| <u>Infant Deaths (-1 yr.)</u> | Male | 94 | 75 |
| | Female | 85 | 69 |
| | Total | 180/ | 144 |
| Rate per 1,000 Live Births | | 29.7 | 24.4 |
| / - Sex Undetermined - 1 | | | |
| <u>Stillbirths</u> | Male | 45 | 47 |
| | Female | 41 | 35 |
| | Total | 86 | 82 |
| Rate per 1,000 Live Births | | 14.8 | 13.9 |
| <u>Puerperal Deaths</u> | | 2 | 1 |
| Rate per 1,000 Live Births | | .3 | .2 |

(Population December 31, 1957 - 254,612)

THE UNIVERSITY OF CHICAGO PRESS

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Live Births, Residents Only

The number of live births occurring to Winnipeg residents during 1957 was 6,067 giving a rate of 23.8 per 1,000 population which is a small increase from the rate of 23.3 recorded in 1956. Of the 6,067 children born there were 3,099 boys and 2,967 girls, and one baby whose sex was not determined, giving a ratio of 1,044 boys to 1,000 girls. First children accounted for 2,164 or 35.7% of the total births, second children 1,770 or 29.2% and third children 1,104 or 18.2%. In 1957, 5,805 or 95.7% included the fifth child and 5,903 or 97.3% were born to mothers between the ages of 15 and 39.

Infant Mortality

There were 180 deaths of infants under one year of age in 1957 giving a rate of 29.7 per 1,000 live births. This is an increase of 21.7% over the constant rate which has prevailed over the last three years of 24.4 per 1,000 live births. 29.7 is equal to the rate recorded in 1953 and has not been higher since 1948. The chief causes of infant deaths were (1956 figures are shown in brackets) Immaturity 38 (27), Postnatal Asphyxia and Atelectasis 29 (16), Injury at Birth 17 (19), Pneumonia, all forms 20 (13). A detailed list of the causes of infant deaths is on pages 13 and 14 of this report.

Neo-Natal Mortality

Deaths of infants in the first four weeks of life numbered 137 which comprised 76.1% of the total infant deaths under one year of age as compared with 71.5% in 1956 and 75.5% in 1955. The neo-natal mortality rate per 1,000 live births was 22.6 which is an increase of 29.9% from the rate of 17.4 recorded in 1956.

Maternal Mortality

There were 2 deaths from conditions pertaining to childbearing giving rate of .3 per 1,000 live births as compared to one death in 1956 with a rate of .2 per 1,000 live births.

Deaths

There were 2,551 deaths of Winnipeg residents recorded in 1957 giving a rate of 10.0 per 1,000 population. The rate for 1956 and 1955 was constant at 9.6 per 1,000 population.

Heart Diseases were again the major cause of death with 922 deaths or 36.1% of all deaths. Cancer was second with 413 deaths or 16.2%. Accidents, Poisonings and Violent Deaths continue to cause over 5% of all deaths.

Live Births, Residents Only

- 5 -

| Year | Number of Births | Rate per 1,000 Population | Infant Deaths | Rate per 1,000 Live Births |
|------|------------------------|---------------------------------|------------------|----------------------------------|
| 1943 | 4,294 | 18.9 | 197 | 45.9 |
| 1944 | 4,060 | 17.7 | 144 | 35.5 |
| 1945 | 4,210 | 18.2 | 134 | 31.8 |
| 1946 | 5,223 | 22.6 | 184 | 35.2 |
| 1947 | 5,532 | 23.6 | 193 | 34.7 |
| 1948 | 4,779 | 20.4 | 153 | 32.0 |
| 1949 | 4,968 | 21.2 | 137 | 27.6 |
| 1950 | 5,045 | 21.1 | 133 | 26.4 |
| 1951 | 5,254 | 21.9 | 115 | 21.9 |
| 1952 | 5,417 | 22.5 | 131 | 24.2 |
| 1953 | 5,586 | 23.0 | 166 | 29.7 |
| 1954 | 5,920 | 24.3 | 145 | 24.4 |
| 1955 | 6,016 | 24.2 | 147 | 24.4 |
| 1956 | 5,908 | 23.3 | 144 | 24.4 |
| 1957 | 6,067 | 23.8 | 180 | 29.7 |

Order of Birth by Age of Mother

| | 15-19 yrs. | 20-24 yrs. | 25-29 yrs. | 30-34 yrs. | 35-39 yrs. | 40 & over | Total | % of Total |
|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------|---------------|
| 1st | 447 | 964 | 489 | 180 | 69 | 16 | 2,165 | 35.7 |
| 2nd | 100 | 616 | 585 | 320 | 119 | 30 | 1,770 | 29.2 |
| 3rd | 14 | 239 | 361 | 303 | 155 | 32 | 1,104 | 18.2 |
| 4th | | 52 | 142 | 164 | 129 | 25 | 512 | 8.5 |
| 5th | | 20 | 61 | 94 | 57 | 23 | 255 | 4.2 |
| 6th & over | | 4 | 46 | 88 | 86 | 33 | 257 | 4.2 |
| Total | 561 | 1,895 | 1,684 | 1,149 | 615 | 159 | 76,067 | 100.0 |

4 Unknown, included in above total - 4

Table Showing Number of Births, Deaths, Infant Deaths and Maternal Mortality With Rates For Winnipeg For Years 1911-1957 [†]

| Average | Births | Rate per 1,000 pop. | Deaths | Rate per 1,000 pop. | Infant Deaths | Rate per 1,000 L.B. | Maternal Mortality | Rate per 1,000 L.B. |
|-----------|--------|------------------------|--------|------------------------|------------------|------------------------|-----------------------|------------------------|
| 1911-1915 | 5,369 | 29 | 2,022 | 11.1 | 813 | 152 | 35 | 6.5 |
| 1916-1920 | 5,695 | 30 | 2,177 | 11.5 | 570 | 104 | 35 | 6.9 |
| 1921-1925 | 5,371 | 27 | 1,677 | 8.5 | 415 | 77 | 25 | 4.7 |
| 1926-1930 | 4,527 | 22 | 1,777 | 8.7 | 277 | 61 | 26 | 5.7 |
| 1931-1935 | 3,944 | 18 | 1,512 | 6.9 | 170 | 43 | 20 | 5.1 |
| 1936-1940 | 3,785 | 17 | 1,697 | 7.7 | 138 | 36 | 17 | 4.5 |
| 1941-1945 | 4,057 | 18 | 1,985 | 8.7 | 159 | 39 | 10 | 2.3 |
| 1946-1950 | 5,200 | 22 | 2,035 | 8.7 | 164 | 31 | 4 | 0.8 |
| 1951 | 5,254 | 21.9 | 2,091 | 8.7 | 112 | 21.4 | 6 | 1.1 |
| 1952 | 5,417 | 22.5 | 2,063 | 8.6 | 131 | 24.2 | 1 | .2 |
| 1953 | 5,586 | 23 | 2,288 | 9.4 | 166 | 29.7 | 5 | .9 |
| 1954 | 5,920 | 24.3 | 2,327 | 9.6 | 144 | 24.3 | 3 | .5 |
| 1955 | 6,016 | 24.2 | 2,332 | 9.6 | 147 | 24.4 | 4 | .7 |
| 1956 | 5,908 | 23.3 | 2,438 | 9.6 | 144 | 24.4 | 1 | .2 |
| 1957 | 6,067 | 23.8 | 2,551 | 10.0 | 180 | 29.7 | 2 | .3 |

[†]1911-1930 include non-residents
1931-1957 residents only

Table Showing Number of Deaths and Rate Per 100,000 Population From Certain Diseases For Winnipeg For The Years 1911 To 1957 [†]

| | T.B. | Rate per 100,000 population | 4 Acute Comm. Diseases | Rate per 100,000 population | Diseases of heart | Rate per 100,000 population | Cancer All forms | Rate per 100,000 population |
|-----------|------|-----------------------------------|------------------------------|-----------------------------------|----------------------|-----------------------------------|---------------------|-----------------------------------|
| 1911-1915 | 131 | 72 | 142 | 78 | 117 | 64 | 87 | 48 |
| 1916-1920 | 136 | 72 | 135 | 72 | 138 | 73 | 135 | 72 |
| 1921-1925 | 94 | 48 | 65 | 33 | 174 | 88 | 178 | 90 |
| 1926-1930 | 86 | 42 | 37 | 18 | 233 | 115 | 209 | 103 |
| 1931-1935 | 65 | 29 | 15 | 7 | 308 | 141 | 268 | 123 |
| 1936-1940 | 52 | 24 | 11 | 5 | 450 | 205 | 283 | 129 |
| 1941-1945 | 51 | 22 | 8 | 4 | 613 | 270 | 324 | 143 |
| 1946-1950 | 34 | 14 | 4 | 2 | 675 | 291 | 333 | 143 |
| 1951 | 27 | 11 | 1 | 0.4 | 704 | 294 | 355 | 148 |
| 1952 | 23 | 10 | - | - | 754 | 315 | 411 | 172 |
| 1953 | 16 | 7 | 2 | 0.8 | 817 | 336 | 435 | 179 |
| 1954 | 17 | 7 | 1 | 0.4 | 872 | 358 | 442 | 182 |
| 1955 | 18 | 7 | 1 | 0.4 | 875 | 359 | 418 | 167 |
| 1956 | 11 | 5 | 2 | 0.8 | 867 | 341 | 464 | 182 |
| 1957 | 22 | 9 | 3 | 1.2 | 922 | 362 | 413 | 162 |

[†]Measles, Scarlet Fever, Diphtheria, Whooping Cough
[†]1911-1930 include non-residents (1931-1957 residents only).

LEADING CAUSES OF DEATH, 1957, RESIDENTS ONLY

| Cause of Death | 1957 | | 1956 | |
|---|------------------|-------------------|------------------|-------------------|
| | Number of Deaths | % of Total Deaths | Number of Deaths | % of Total Deaths |
| Heart Diseases (410-443) | 922 | 36.1 | 867 | 35.5 |
| Malignant Neoplasms (140-205) | 413 | 16.2 | 464 | 19.0 |
| Vascular Lesions Affecting Central Nervous System (330-334) | 291 | 11.4 | 288 | 11.8 |
| Malformations and Diseases of Early Infancy (750-776) | 144 | 5.7 | 112 | 4.6 |
| Accidents, Poisonings and Violent Deaths (E800-E999) | 133 | 5.2 | 136 | 5.6 |
| Pneumonia (490-493) | 127 | 5.0 | 107 | 4.4 |
| Acute Poliomyelitis (080) | . | . | . | . |
| Diabetes Mellitus (260) | 28 | 1.1 | 39 | 1.6 |
| Ulcer of stomach and duodenum (540-541) | 13 | .5 | 12 | .5 |
| Nephritis and Nephrosis (590-594) | 24 | .9 | 22 | .9 |
| Intestinal Obstruction and Hernia (560-561, 570) | 19 | .7 | 15 | .6 |
| Pulmonary Tuberculosis (002) | 22 | .9 | 11 | .5 |
| Hypertension without mention of Heart (444-447) | 13 | .5 | 17 | .7 |
| Cirrhosis of Liver (581) | 27 | 1.1 | 26 | 1.1 |
| Bronchitis (500-502) | 21 | .8 | 15 | .6 |
| All other causes | 354 | 13.9 | 307 | 12.6 |
| | 2,551 | 100.0 | 2,438 | 100.0 |

Causes of Death

The following pages give particulars of the number of deaths of Winnipeg residents for the year 1957, classified according to cause, age and sex. The causes of death are coded according to the Sixth revision of the International Lists of Diseases and Causes of Death.

THE UNIVERSITY OF CHICAGO

| NAME | | ADDRESS | | CITY | |
|------|-----|----------|-------------|---------|------|
| 1. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 2. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 3. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 4. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 5. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 6. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 7. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 8. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 9. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 10. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 11. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 12. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
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| 15. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 16. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 17. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 18. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 19. | Mr. | John Doe | 123 Main St | Chicago | Ill. |
| 20. | Mr. | John Doe | 123 Main St | Chicago | Ill. |

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO
 123 Main St
 Chicago, Ill.

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| Cause | Male | Female | 0 - 28 days | 29d. - 1 yr. | 1 - 2 yr. | 3 - 4 yr. | 5 - 14 yr. | 15 - 24 yr. | 25 - 34 yr. | 35 - 44 yr. | 45 - 54 yr. | 55 - 64 yr. | 65 - 69 yr. | 70 - 79 yr. | 80 - 89 yr. | 90 yr. + | Total |
|--|------|--------|-------------|--------------|-----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|-------|
| Nonmeningococcal Meningitis (340) | 1 | 3 | 1 | | 2 | | | | | | 1 | | | | | | 4 |
| Chronic rheumatic heart disease (410-416) | 12 | 27 | | | | | | | 4 | 6 | 8 | 7 | 2 | 5 | 7 | | 39 |
| Arteriosclerotic and degenerative heart diseases (420-422) | 515 | 273 | 1 | 1 | | | | 1 | 1 | 10 | 57 | 131 | 120 | 299 | 134 | 33 | 788 |
| Other diseases of heart (430-434) | 20 | 21 | | | | | | | | | 3 | 5 | 5 | 18 | 9 | 1 | 41 |
| Hypertension with heart disease (440-443) | 26 | 28 | | | | | | | | | 3 | 8 | 6 | 20 | 15 | 2 | 54 |
| Total Heart Diseases (410-443) | 573 | 349 | 1 | 1 | | | | 1 | 5 | 16 | 71 | 151 | 133 | 342 | 165 | 36 | 922 |
| Hypertension without mention of heart (444-447) | 12 | 1 | | | | | | | | | 1 | 4 | 2 | 3 | 2 | 1 | 13 |
| Influenza (480-483) | 14 | 6 | | | | | 1 | 1 | 1 | 1 | 1 | 4 | 2 | 4 | 4 | 1 | 20 |
| Pneumonia (490-493) | 78 | 49 | | 12 | 1 | 1 | | 2 | 3 | 5 | 7 | 8 | 12 | 37 | 28 | 11 | 127 |
| Bronchitis (500-502) | 15 | 6 | | 5 | | 1 | | | | | | 2 | 4 | 7 | 2 | | 21 |

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185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 | 580 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | 594 | 595 | 596 | 597 | 598 | 599 | 600 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 | 655 | 656 | 657 | 658 | 659 | 660 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 | 710 | 711 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 | 720 | 721 | 722 | 723 | 724 | 725 | 726 | 727 | 728 | 729 | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 | 738 | 739 | 740 | 741 | 742 | 743 | 744 | 745 | 746 | 747 | 748 | 749 | 750 | 751 | 752 | 753 | 754 | 755 | 756 | 757 | 758 | 759 | 760 | 761 | 762 | 763 | 764 | 765 | 766 | 767 | 768 | 769 | 770 | 771 | 772 | 773 | 774 | 775 | 776 | 777 | 778 | 779 | 780 | 781 | 782 | 783 | 784 | 785 | 786 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 | 800 | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 809 | 810 | 811 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 820 | 821 | 822 | 823 | 824 | 825 | 826 | 827 | 828 | 829 | 830 | 831 | 832 | 833 | 834 | 835 | 836 | 837 | 838 | 839 | 840 | 841 | 842 | 843 | 844 | 845 | 846 | 847 | 848 | 849 | 850 | 851 | 852 | 853 | 854 | 855 | 856 | 857 | 858 | 859 | 860 | 861 | 862 | 863 | 864 | 865 | 866 | 867 | 868 | 869 | 870 | 871 | 872 | 873 | 874 | 875 | 876 | 877 | 878 | 879 | 880 | 881 | 882 | 883 | 884 | 885 | 886 | 887 | 888 | 889 | 890 | 891 | 892 | 893 | 894 | 895 | 896 | 897 | 898 | 899 | 900 | 901 | 902 | 903 | 904 | 905 | 906 | 907 | 908 | 909 | 910 | 911 | 912 | 913 | 914 | 915 | 916 | 917 | 918 | 919 | 920 | 921 | 922 | 923 | 924 | 925 | 926 | 927 | 928 | 929 | 930 | 931 | 932 | 933 | 934 | 935 | 936 | 937 | 938 | 939 | 940 | 941 | 942 | 943 | 944 | 945 | 946 | 947 | 948 | 949 | 950 | 951 | 952 | 953 | 954 | 955 | 956 | 957 | 958 | 959 | 960 | 961 | 962 | 963 | 964 | 965 | 966 | 967 | 968 | 969 | 970 | 971 | 972 | 973 | 974 | 975 | 976 | 977 | 978 | 979 | 980 | 981 | 982 | 983 | 984 | 985 | 986 | 987 | 988 | 989 | 990 | 991 | 992 | 993 | 994 | 995 | 996 | 997 | 998 | 999 | 1000 | 1001 | 1002 | 1003 | 1004 | 1005 | 1006 | 1007 | 1008 | 1009 | 1010 | 1011 | 1012 | 1013 | 1014 | 1015 | 1016 | 1017 | 1018 | 1019 | 1020 | 1021 | 1022 | 1023 | 1024 | 1025 | 1026 | 1027 | 1028 | 1029 | 1030 | 1031 | 1032 | 1033 | 1034 | 1035 | 1036 | 1037 | 1038 | 1039 | 1040 | 1041 | 1042 | 1043 | 1044 | 1045 | 1046 | 1047 | 1048 | 1049 | 1050 | 1051 | 1052 | 1053 | 1054 | 1055 | 1056 | 1057 | 1058 | 1059 | 1060 | 1061 | 1062 | 1063 | 1064 | 1065 | 1066 | 1067 | 1068 | 1069 | 1070 | 1071 | 1072 | 1073 | 1074 | 1075 | 1076 | 1077 | 1078 | 1079 | 1080 | 1081 | 1082 | 1083 | 1084 | 1085 | 1086 | 1087 | 1088 | 1089 | 1090 | 1091 | 1092 | 1093 | 1094 | 1095 | 1096 | 1097 | 1098 | 1099 | 1100 | 1101 | 1102 | 1103 | 1104 | 1105 | 1106 | 1107 | 1108 | 1109 | 1110 | 1111 | 1112 | 1113 | 1114 | 1115 | 1116 | 1117 | 1118 | 1119 | 1120 | 1121 | 1122 | 1123 | 1124 | 1125 | 1126 | 1127 | 1128 | 1129 | 1130 | 1131 | 1132 | 1133 | 1134 | 1135 | 1136 | 1137 | 1138 | 1139 | 1140 | 1141 | 1142 | 1143 | 1144 | 1145 | 1146 | 1147 | 1148 | 1149 | 1150 | 1151 | 1152 | 1153 | 1154 | 1155 | 1156 | 1157 | 1158 | 1159 | 1160 | 1161 | 1162 | 1163 | 1164 | 1165 | 1166 | 1167 | 1168 | 1169 | 1170 | 1171 | 1172 | 1173 | 1174 | 1175 | 1176 | 1177 | 1178 | 1179 | 1180 | 1181 | 1182 | 1183 | 1184 | 1185 | 1186 | 1187 | 1188 | 1189 | 1190 | 1191 | 1192 | 1193 | 1194 | 1195 | 1196 | 1197 | 1198 | 1199 | 1200 | 1201 | 1202 | 1203 | 1204 | 1205 | 1206 | 1207 | 1208 | 1209 | 1210 | 1211 | 1212 | 1213 | 1214 | 1215 | 1216 | 1217 | 1218 | 1219 | 1220 | 1221 | 1222 | 1223 | 1224 | 1225 | 1226 | 1227 | 1228 | 1229 | 1230 | 1231 | 1232 | 1233 | 1234 | 1235 | 1236 | 1237 | 1238 | 1239 | 1240 | 1241 | 1242 | 1243 | 1244 | 1245 | 1246 | 1247 | 1248 | 1249 | 1250 | 1251 | 1252 | 1253 | 1254 | 1255 | 1256 | 1257 | 1258 | 1259 | 1260 | 1261 | 1262 | 1263 | 1264 | 1265 | 1266 | 1267 | 1268 | 1269 | 1270 | 1271 | 1272 | 1273 | 1274 | 1275 | 1276 | 1277 | 1278 | 1279 | 1280 | 1281 | 1282 | 1283 | 1284 | 1285 | 1286 | 1287 | 1288 | 1289 | 1290 | 1291 | 1292 | 1293 | 1294 | 1295 | 1296 | 1297 | 1298 | 1299 | 1300 | 1301 | 1302 | 1303 | 1304 | 1305 | 1306 | 1307 | 1308 | 1309 | 1310 | 1311 | 1312 | 1313 | 1314 | 1315 | 1316 | 1317 | 1318 | 1319 | 1320 | 1321 | 1322 | 1323 | 1324 | 1325 | 1326 | 1327 | 1328 | 1329 | 1330 | 1331 | 1332 | 1333 | 1334 | 1335 | 1336 | 1337 | 1338 | 1339 | 1340 | 1341 | 1342 | 1343 | 1344 | 1345 | 1346 | 1347 | 1348 | 1349 | 1350 | 1351 | 1352 | 1353 | 1354 | 1355 | 1356 | 1357 | 1358 | 1359 | 1360 | 1361 | 1362 | 1363 | 1364 | 1365 | 1366 | 1367 | 1368 | 1369 | 1370 | 1371 | 1372 | 1373 | 1374 | 1375 | 1376 | 1377 | 1378 | 1379 | 1380 | 1381 | 1382 | 1383 | 1384 | 1385 | 1386 | 1387 | 1388 | 1389 | 1390 | 1391 | 1392 | 1393 | 1394 | 1395 | 1396 | 1397 | 1398 | 1399 | 1400 | 1401 | 1402 | 1403 | 1404 | 1405 | 1406 | 1407 | 1408 | 1409 | 1410 | 1411 | 1412 | 1413 | 1414 | 1415 | 1416 | 1417 | 1418 | 1419 | 1420 | 1421 | 1422 | 1423 | 1424 | 1425 | 1426 | 1427 | 1428 | 1429 | 1430 | 1431 | 1432 | 1433 | 1434 | 1435 | 1436 | 1437 | 1438 | 1439 | 1440 | 1441 | 1442 | 1443 | 1444 | 1445 | 1446 | 1447 | 1448 | 1449 | 1450 | 1451 | 1452 | 1453 | 1454 | 1455 | 1456 | 1457 | 1458 | 1459 | 1460 | 1461 | 1462 | 1463 | 1464 | 1465 | 1466 | 1467 | 1468 | 1469 | 1470 | 1471 | 1472 | 1473 | 1474 | 1475 | 1476 | 1477 | 1478 | 1479 | 1480 | 1481 | 1482 | 1483 | 1484 | 1485 | 1486 | 1487 | 1488 | 1489 | 1490 | 1491 | 1492 | 1493 | 1494 | 1495 | 14 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-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| Cause | Male | Female | 0 - 28 days | 29d. - 1 yr. | 1 - 2 yr. | 3 - 4 yr. | 5 - 14 yr. | 15 - 24 yr. | 25 - 34 yr. | 35 - 44 yr. | 45 - 54 yr. | 55 - 64 yr. | 65 - 69 yr. | 70 - 79 yr. | 80 - 89 yr. | 90 yrs. + | Total |
|---|------|--------|-------------|--------------|-----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-------|
| Ulcer of stomach and duodenum (540-541) | 10 | 3 | | | | | | | 1 | | | 1 | 4 | 4 | 3 | | 13 |
| Appendicitis (550-553) | 3 | 1 | | | | | | | | | 2 | | | 2 | | | 4 |
| Intestinal obstruction and hernia (560-561, 570) | 12 | 7 | 1 | | | | | | | 4 | 2 | | 2 | 8 | 2 | | 19 |
| Gastritis, duodenitis, enteritis and colitis, except diarrhoea of the newborn (543, 571-572) | 5 | 3 | | 1 | 1 | 1 | | | | | | 1 | 1 | 3 | | | 8 |
| Cirrhosis of Liver (581) | 15 | 12 | | | | | | | 2 | 3 | 5 | 9 | 2 | 6 | | | 27 |
| Nephritis and nephrosis (590-594) | 16 | 8 | | 1 | | | | 1 | 3 | 2 | 1 | | 3 | 9 | 2 | 2 | 24 |
| Hyperplasia of prostate (610) | 5 | | | | | | | | | | | 1 | | 3 | | 1 | 5 |
| Complications of pregnancy, childbirth and the puerperium (640-652, 670-689) | 1 | 3 | 2 | | | | | | | 2 | | | | | | | 4 |

| Cause | Male | Female | 0 - 28 days | 29d. - 1 yr. | 1 - 2 yr. | 3 - 4 yr. | 5 - 14 yr. | 15 - 24 yr. | 25 - 34 yr. | 35 - 44 yr. | 45 - 54 yr. | 55 - 64 yr. | 65 - 69 yr. | 70 - 79 yr. | 80 - 89 yr. | 90 yrs. & over | Total |
|---|------|--------|-------------|--------------|-----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|-------|
| Congenital Malformations (750-759) | 16 | 19 | 21 | 6 | 1 | | 2 | | | | 3 | | 1 | 1 | 1 | | 7 36 |
| Birth Injuries, postnatal asphyxia and atelectasis (760-762) | 26 | 20 | 45 | 1 | | | | | | | | | | | | | 46 |
| Infections of the newborn (763-768) | 4 | 7 | 11 | | | | | | | | | | | | | | 11 |
| Other diseases peculiar to early infancy and immaturity unqualified (769-776) | 22 | 29 | 51 | | | | | | | | | | | | | | 51 |
| Totals, (750-776) | 68 | 75 | 128 | 7 | 1 | | 2 | | | | 3 | | 1 | 1 | 1 | | 7 144 |
| Senility without mention of psychosis, ill defined and unknown causes (780-795) | 5 | 4 | | | | | | | | | | | | 3 | 4 | 2 | 9 |
| All other diseases (residual) | 188 | 91 | 3 | 9 | 1 | 1 | 5 | 1 | 3 | 5 | 14 | 28 | 41 | 88 | 67 | 13 | 279 |

& Sex undetermined - 1

1
11
1

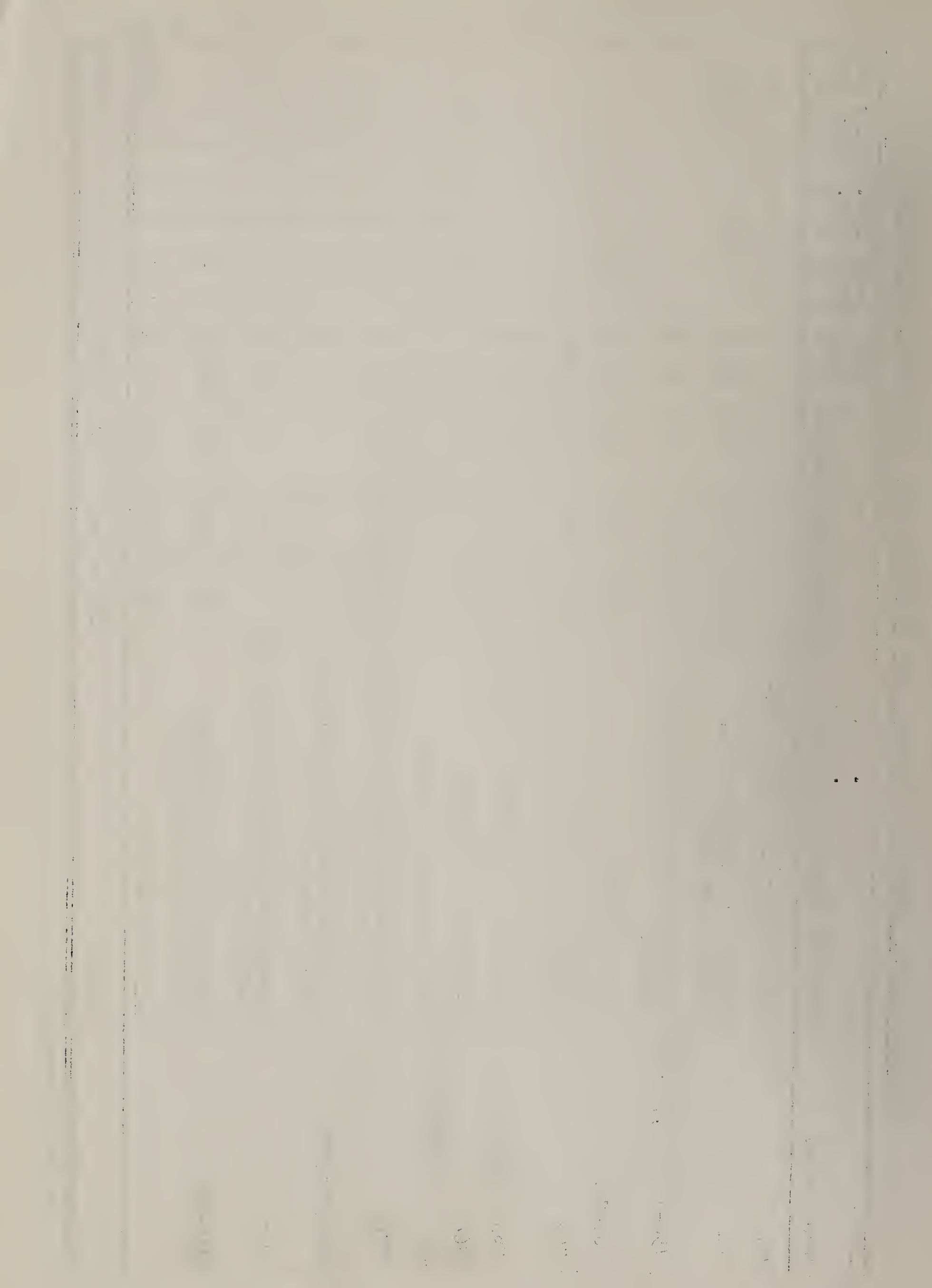
| Cause | Male | Female | 0 - 28 days | 29d. - 1 yr. | 1 - 2 yr. | 3 - 4 yr. | 5 - 14 yr. | 15 - 24 yr. | 25 - 34 yr. | 35 - 44 yr. | 45 - 54 yr. | 55 - 64 yr. | 65 - 69 yr. | 70 - 79 yr. | 80 - 89 yr. | 90 yrs. + | Total |
|---|-------|--------|-------------|--------------|-----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-------|
| accidents, Poisonings and Violence (External Cause) | | | | | | | | | | | | | | | | | |
| Motor vehicle accidents (E810-E835) | 27 | 10 | | | 2 | 2 | 3 | 9 | 3 | 2 | 4 | 3 | 2 | 5 | 2 | | 37 |
| All other accidents (E800-E802, E840-E965) | 42 | 23 | 1 | 6 | | | 3 | 5 | 6 | 4 | 4 | 7 | 6 | 8 | 11 | 4 | 65 |
| Suicide and self-inflicted injury (E970-E979) | 21 | 7 | | | | | 1 | | 3 | 5 | 11 | 4 | 3 | 1 | | | 28 |
| Homicide and operations of war (E980-E999) | 2 | 1 | | | 1 | | | | 1 | | | | | 1 | | | 3 |
| Total Violent Deaths (E800-E999) | 92 | 41 | 1 | 6 | 3 | 2 | 7 | 14 | 13 | 12 | 19 | 14 | 11 | 15 | 13 | 4 | 133 |
| GRAND TOTALS | 1,502 | 1,048 | 137 | 43 | 11 | 9 | 18 | 25 | 40 | 76 | 177 | 359 | 327 | 793 | 441 | 95 | 2,551 |

+ Sex undetermined - 1

INFANT DEATHS, WINNIPEG RESIDENTS, FOR THE YEAR 1957 - BY CAUSE, AGE AND SEX

| Code Number | Cause of Death | Total | Male | Female | 0-7 Days | | 8-14 Days | | 15-21 Days | | 22da. -1m. | | 1mo. -1yr. | |
|-----------------------|---|-------|------|--------|----------|----|-----------|---|------------|---|------------|---|------------|----|
| | | | | | M | F | M | F | M | F | M | F | M | F |
| 751 | Spina bifida and meningocele | 3 | 2 | 1 | | | | 1 | 1 | | | | 1 | |
| 754 | Congenital malformations, circulatory system | 12 | 5 | 7 | 2 | 4 | | 1 | 1 | | | | 2 | 2 |
| 750-752, 753, 755-759 | All other congenital malformations | 12 | 6 | 5 | 6 | 4 | | | | | | | 1 | |
| 760-761 | Birth Injuries | 17 | 9 | 8 | 9 | 6 | | | | 1 | | | | 1 |
| 762 | Postnatal asphyxia and atelectasis | 29 | 17 | 12 | 17 | 12 | | | | | | | | |
| 763 | Pneumonia of newborn | 8 | 3 | 5 | 3 | 3 | | | | | | 2 | | |
| 764 | Diarrhoea of newborn | 2 | | 2 | | | | | 1 | | | 1 | | |
| 768 | Other sepsis of newborn | 1 | 1 | | 1 | | | | | | | | | |
| 770 | Haemolytic disease of newborn (Erythroblastosis) | 6 | 3 | 3 | 3 | 3 | | | | | | | | |
| 769, 771, 772 | All other defined diseases of early infancy | 3 | | 3 | | 2 | | | 1 | | | | | |
| 773 | Ill-defined diseases peculiar to early infancy | 4 | 1 | 3 | 1 | 3 | | | | | | | | |
| 774-776 | Immaturity with subsidiary condition or unqualified | 38 | 18 | 20 | 18 | 19 | | | 1 | | | | | |
| | All other causes | 45 | 29 | 16 | 5 | 2 | 1 | 1 | | | | | 23 | 13 |
| | TOTALS | 180 | 94 | 85 | 65 | 58 | 1 | 5 | 2 | 2 | | 3 | 26 | 17 |

* Sex undetermined



Details of Infant Deaths Listed in "All other causes" for 1957, Residents

| No. | Cause of Death | Total | Male | | Female | 0-7 Days | | 8-14 Days | | 15-21 Days | | 22da. -1yr. | |
|------|---|-------|------|--|--------|----------|---|-----------|---|------------|---|-------------|----|
| | | | | | | M | F | M | F | M | F | M | F |
| | | | | | | | | | | | | | |
| 053 | Septicaemia and pyaemia | 2 | 2 | | | | | | | | | 2 | |
| 331 | Cerebral hemorrhage (over 4 weeks) | 1 | | | 1 | | | | | | | | 1 |
| 340 | Meningitis, except meningococcal and tuberculous | 1 | | | 1 | | | 1 | | | | | |
| 344 | Late effects of intracranial abscess or pyogenic infection | 1 | 1 | | | | | | | | | 1 | |
| 351 | Cerebral spastic infantile paralysis | 1 | 1 | | | | | | | | | 1 | |
| 353 | Epilepsy | 1 | 1 | | | | | | | | | 1 | |
| 391 | Otitis media without mention of mastoiditis | 1 | | | 1 | | | | | | | | 1 |
| 421 | Chronic endocarditis not specified as rheumatic | 1 | 1 | | | 1 | | | | | | | |
| 422 | Other myocardial degeneration | 1 | | | 1 | | | | | | | | 1 |
| 491 | Bronchopneumonia (over 4 weeks) | 8 | 5 | | 3 | | | | | | | 5 | 3 |
| 492 | Primary atypical pneumonia (over 4 weeks) | 3 | | | 3 | | | | | | | | 3 |
| 493 | Pneumonia, other and unspecified | 1 | 1 | | | | | | | | | 1 | |
| 500 | Acute bronchitis | 1 | 1 | | | | | | | | | 1 | |
| 501 | Bronchitis unqualified | 3 | 2 | | 1 | | | | | | | 2 | 1 |
| 502 | Chronic bronchitis | 1 | | | 1 | | | | | | | | 1 |
| 560 | Hernia of abdominal cavity without mention of obstruction | 1 | 1 | | | 1 | | | | | | | |
| 571 | Gastro-enteritis and colitis, except ulcerative, age 4 weeks & over | 1 | 1 | | | | | | | | | 1 | |
| 583 | Other diseases of liver | 1 | 1 | | | | | | | | | 1 | |
| 587 | Diseases of pancreas | 1 | | | 1 | | | | | | | | 1 |
| 593 | Nephritis not specified as acute or chronic | 1 | 1 | | | | | | | | | 1 | |
| 603 | Other diseases of kidney and ureter | 1 | 1 | | | | | | | | | 1 | |
| 648 | Other complications arising from pregnancy | 2 | 1 | | 1 | 1 | | | | | | | |
| 660 | Delivery without mention of complication | 1 | | | 1 | | | 1 | | | | | |
| 748 | Clubfeet | 2 | 2 | | | 2 | | | | | | | |
| E921 | Inhalation and ingestion of food causing obstruction or suffocation | 3 | 3 | | | | | | | | | 3 | |
| E924 | Accidental mechanical suffocation in bed and cradle | 3 | 2 | | 1 | | | 1 | | | | 1 | 1 |
| E936 | Other and unspecified accidents | 1 | 1 | | | | | | | | | 1 | |
| | TOTALS | 45 | 29 | | 16 | 5 | 2 | 1 | 1 | | | 23 | 13 |

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry must be clearly documented and verified by the relevant parties. This ensures transparency and accountability in the financial process.

2. The second part outlines the procedures for handling discrepancies. It states that any inconsistencies found during the audit process should be immediately reported to the management. A thorough investigation should then be conducted to identify the cause of the error and implement corrective measures to prevent future occurrences.

3. The third part details the requirements for the annual financial statement. It specifies that the statement must be prepared in accordance with the latest accounting standards and submitted to the board of directors for review. The statement should provide a comprehensive overview of the company's financial performance over the past year.

4. The fourth part discusses the role of the internal audit department. It highlights that the internal auditors are responsible for conducting regular audits of the company's internal controls and financial reporting. Their findings should be used to improve the efficiency and effectiveness of the financial management system.

5. The fifth part concludes the document by reiterating the commitment to high standards of financial integrity. It states that the company will continue to strive for excellence in all financial matters and will not tolerate any form of fraud or misstatement.

RIVER HEIGHTS

A
Live Births 398
Infant Deaths 0-14d 10
Rate per 100 L.B. 2.5
Inf.Dths.15d.-lyr. 3
Rate per 100 L.B. .8

CRESCENTWOOD

B

Live Births 541
I.D. 0-14d. 11
Rate/100 L.B. 2.0
I.D.15d.-lyr. 3
Rate/100 L.B. .6

C.N.R. tracks

Live Births 383
I.D. 0-14d. 9
Rate/100 L.B. 2.3
I.D.15d.-lyr. 3
Rate/100 L.B. .8

RIVERVIEW

City totals

Live Births ... 6,067
Infant Deaths.. 180
Rate/100 L.B.... 3.0
Rate/1000 L.B.. 29.7

PORTAGE WEST

F
L.B. 386
Inf.Dths. 9
0-14d. 2.3
Rate 15d.-lyr 1
Rate .3

L.B. 440
Inf.Dths. 10
0-14d. 2.3
Rate 15d.-lyr 2
Rate .4

PORTAGE SOUTH

E
L.B. 347
Inf.Dths. 7
0-14d. 2.3
Rate 15d.-lyr 4
Rate 1.3

SARGENT WEST

H
L.B. 516
Inf. Dths. 11
0-14d. 2.1
Rate 15d.-lyr. 2
Rate .4

Ellice

SARGENT EAST

L.B. 309
Inf.Dths. 7
0-14d. 2.3
Rate 15d.-lyr 4
Rate 1.3

D

PORTAGE EAST

INFANT MORTALITY BY STATISTICAL DISTRICTS RESIDENTS ONLY, 1957

Deaths of Infants
(1) 0 to 14 days
(2) 15 days to 1 year
Rates per 100 Live Births

WILLIAM WEST

J
L.B. 351
Inf.Dths. 10
0-14d. 2.9
Rate 15d.-lyr. 5
Rate 1.4

C.P.R. tracks

Sherbrook

L.B. 327
Inf.Dths. 5
0-14d. 1.5
Rate 15d.-lyr. 7
Rate 2.2

WILLIAM EAST

K
L.B. 328
Inf.Dths. 5
0-14d. 1.5
Rate 15d.-lyr 5
Rate 1.5

SELKIRK EAST

L
L.B. 411
Inf.Dths. 10
0-14d. 2.4
Rate 15d.-lyr. 4
Rate 1.0

L.B. 431
Inf.Dths. 10
0-14d. 2.3
Rate 15d.-lyr. 3
Rate .7

ELMWOOD

P

ST. JOHN'S

0

Burrows

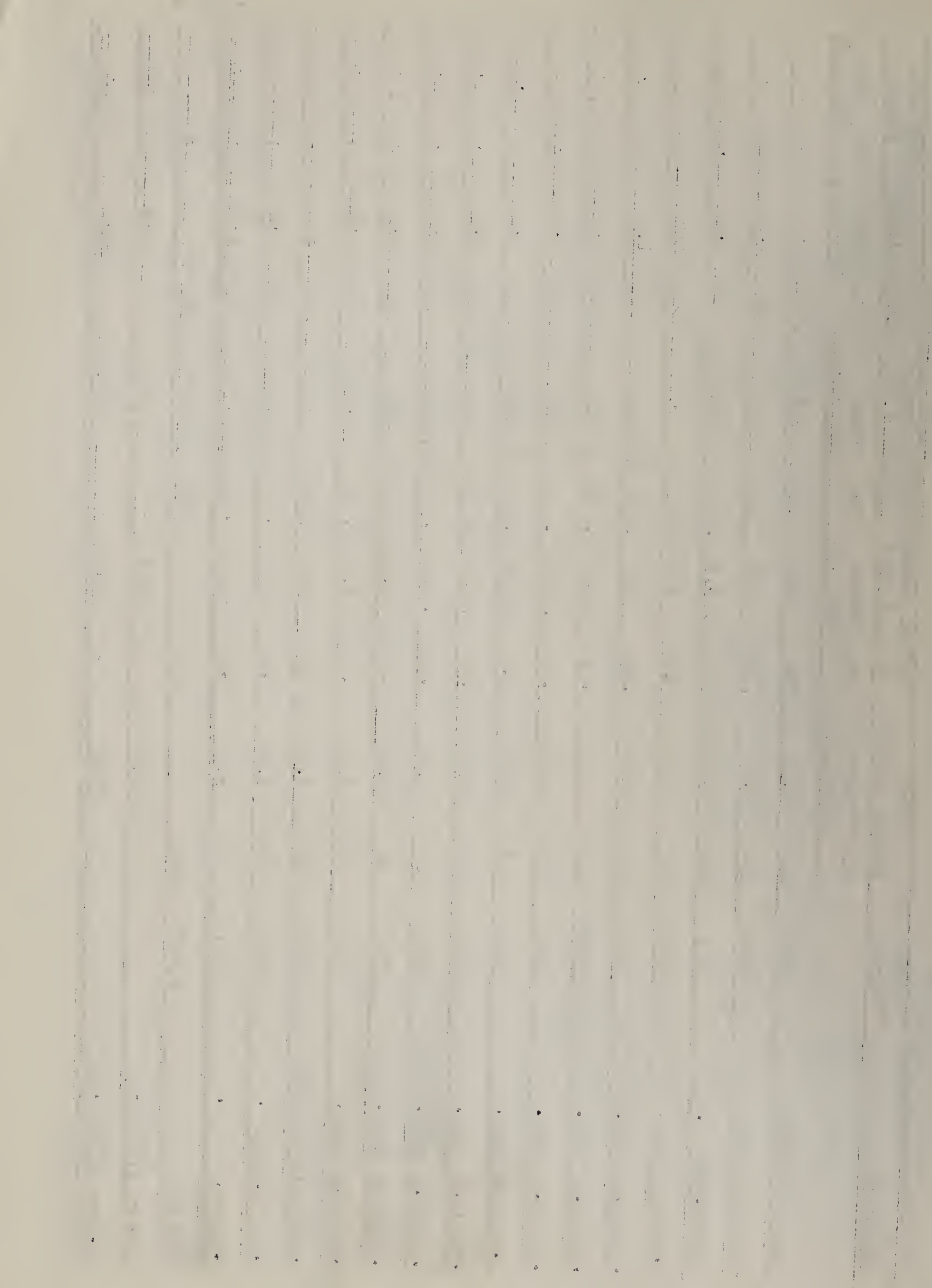
McPHILLIPS NORTH
N
L.B. 537
Inf.Dths. 11
0-14d. 2.0
Rate 15d.-lyr. 2
Rate .4

SELKIRK WEST

M
L.B. 362
Inf.Dths. 5
0-14d. 1.4
Rate 15d.-lyr. 3
Rate .8

INFANT MORTALITY, 1957, BY DISTRICTS - RESIDENTS ONLY

| District | Live Births | Total Infant Deaths | | Infant Deaths 0 - 14 days | | Infant Deaths 15d. - 1 yr. | | Stillbirths | | Puerperal Deaths | |
|-------------------|-------------|---------------------|-------------------|---------------------------|-------------------|----------------------------|------------------|-------------|-------------------|------------------|------------------|
| | | No. | Rate/ 100 L.B. | No. | Rate/ 100 L.B. | No. | Rate 100 L.B. | No. | Rate/ 100 L.B. | No. | Rate 100 L.B. |
| River Heights | 398 | 13 | 3.3 | 10 | 2.5 | 3 | .8 | 2 | .5 | . | . |
| Crescentwood | 541 | 14 | 2.6 | 11 | 2.0 | 3 | .6 | 8 | 1.5 | . | . |
| Riverview | 333 | 12 | 3.1 | 9 | 2.3 | 3 | .8 | 7 | 1.8 | . | . |
| Portage East | 347 | 10 | 2.8 | 10 | 2.8 | . | . | 5 | 1.4 | 1 | .3 |
| Portage South | 440 | 12 | 2.7 | 10 | 2.3 | 2 | .4 | 6 | 1.4 | . | . |
| Portage West | 386 | 10 | 2.6 | 9 | 2.3 | 1 | .3 | 4 | 1.0 | . | . |
| Sargent East | 309 | 11 | 3.6 | 7 | 2.3 | 4 | 1.3 | 5 | 1.6 | . | . |
| Sargent West | 516 | 13 | 2.5 | 11 | 2.1 | 2 | .4 | 7 | 1.4 | 1 | .2 |
| William West | 351 | 15 | 4.3 | 10 | 2.9 | 5 | 1.4 | 10 | 2.8 | . | . |
| William East | 327 | 12 | 3.7 | 5 | 1.5 | 7 | 2.2 | 7 | 2.1 | . | . |
| Selkirk East | 328 | 10 | 3.0 | 5 | 1.5 | 5 | 1.5 | 6 | 1.8 | . | . |
| Selkirk West | 362 | 8 | 2.2 | 5 | 1.4 | 3 | .8 | 3 | .8 | . | . |
| McPhillips North | 537 | 13 | 2.4 | 11 | 2.0 | 2 | .4 | 6 | 1.1 | . | . |
| St. John's | 411 | 14 | 3.4 | 10 | 2.4 | 4 | 1.0 | 2 | .5 | . | . |
| Elmwood | 431 | 13 | 3.0 | 10 | 2.3 | 3 | .7 | 8 | 1.9 | . | . |
| TOTALS | 6,067 | 180 | | 133 | | 47 | | 86 | | 2 | |
| Rates /100 L.B. | | | 3.0 | | 2.2 | | .8 | | 1.4 | | .03 |
| Rates /1,000 L.B. | | | 29.7 | | 21.9 | | 7.8 | | 14.2 | | .3 |



DIVISION OF COMMUNICABLE DISEASES

CASES AND DEATHS REPORTED:

| | <u>CASES</u> | <u>DEATHS</u> | <u>CASES</u> | <u>DEATHS</u> |
|--------------------------|----------------|---------------|----------------|---------------|
| | <u>1 9 5 7</u> | | <u>1 9 5 6</u> | |
| Chickenpox | 224 | - | 226 | - |
| Diarrhoea, Infantile | 55 | - | 46 | - |
| Diphtheria | 20 | 2 | 47 | 2 |
| Diphtheria Carriers | 11 | - | 10 | - |
| Dysentery, Bacillary | 12 | - | 10 | - |
| Encephalitis, Infectious | 3 | - | - | - |
| Erysipelas | 1 | - | 4 | - |
| Hepatitis, Infectious | 91 | - | 83 | - |
| Influenza | 77 | - | - | - |
| Measles | 619 | - | 292 | - |
| Men. Meningitis | 10 | - | - | - |
| Mumps | 94 | - | 198 | - |
| Poliomyelitis | 1 | - | 2 | - |
| Paratyphoid Fever | - | - | 2 | - |
| Scarlet Fever | 61 | - | 52 | - |
| Tuberculosis, Pulmonary | 61 | 22 | 49 | 12 |
| Typhoid Fever | 1 | - | - | - |
| Tetanus | 1 | - | - | - |
| Undulant Fever | - | - | 3 | - |
| Whooping Cough | 20 | - | 65 | - |
| Total | <u>1362</u> | <u>24</u> | <u>1089</u> | <u>14</u> |

SERA AND VACCINE DISTRIBUTED

| | <u>1957</u> | <u>1956</u> |
|---|-------------|-------------|
| Smallpox vaccine | 8066 | 8558 |
| Scarlet Fever Toxin (1 person pkts.) | 27 | 118 |
| Diphtheria Toxoid (1 person pkts.) | 90 | 640 |
| (9 person pkts.) | - | 16 |
| Schick Test Toxin pkts. | 60 | 325 |
| Tetanus Antitoxin (1,500 unit pkts.) | 180 | 121 |
| Pertussis Vaccine (1 person pkts.) | 130 | 63 |
| Typhoid Toxoid (1 person pkts.) | 194 | 157 |
| Diphtheria and Pertussis comb. (1 person pkts.) | 52 | 139 |
| Diphtheria and Tetanus, Conn. (1 person pkts.) | 128 | 358 |
| Diphtheria, Tetanus & Pertussis, Conn. | 106 | 195 |
| Diphtheria, Tetanus & Pertussis, (1.5 cc P.D.) | 658 | 540 |
| Diphtheria, Tetanus & Pertussis, (7.5 cc P.D.) | 2413 | 4224 |

THE UNIVERSITY OF CHICAGO

| THE UNIVERSITY OF CHICAGO | | THE UNIVERSITY OF CHICAGO | | THE UNIVERSITY OF CHICAGO | |
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| 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 |
| 37 | 38 | 39 | 40 | 41 | 42 |
| 43 | 44 | 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 | 53 | 54 |
| 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 |
| 67 | 68 | 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 | 77 | 78 |
| 79 | 80 | 81 | 82 | 83 | 84 |
| 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 |
| 97 | 98 | 99 | 100 | 101 | 102 |
| 103 | 104 | 105 | 106 | 107 | 108 |
| 109 | 110 | 111 | 112 | 113 | 114 |
| 115 | 116 | 117 | 118 | 119 | 120 |
| 121 | 122 | 123 | 124 | 125 | 126 |
| 127 | 128 | 129 | 130 | 131 | 132 |
| 133 | 134 | 135 | 136 | 137 | 138 |
| 139 | 140 | 141 | 142 | 143 | 144 |
| 145 | 146 | 147 | 148 | 149 | 150 |
| 151 | 152 | 153 | 154 | 155 | 156 |
| 157 | 158 | 159 | 160 | 161 | 162 |
| 163 | 164 | 165 | 166 | 167 | 168 |
| 169 | 170 | 171 | 172 | 173 | 174 |
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| 235 | 236 | 237 | 238 | 239 | 240 |
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| 259 | 260 | 261 | 262 | 263 | 264 |
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| 283 | 284 | 285 | 286 | 287 | 288 |
| 289 | 290 | 291 | 292 | 293 | 294 |
| 295 | 296 | 297 | 298 | 299 | 300 |
| 301 | 302 | 303 | 304 | 305 | 306 |
| 307 | 308 | 309 | 310 | 311 | 312 |
| 313 | 314 | 315 | 316 | 317 | 318 |
| 319 | 320 | 321 | 322 | 323 | 324 |
| 325 | 326 | 327 | 328 | 329 | 330 |
| 331 | 332 | 333 | 334 | 335 | 336 |
| 337 | 338 | 339 | 340 | 341 | 342 |
| 343 | 344 | 345 | 346 | 347 | 348 |
| 349 | 350 | 351 | 352 | 353 | 354 |
| 355 | 356 | 357 | 358 | 359 | 360 |
| 361 | 362 | 363 | 364 | 365 | 366 |
| 367 | 368 | 369 | 370 | 371 | 372 |
| 373 | 374 | 375 | 376 | 377 | 378 |
| 379 | 380 | 381 | 382 | 383 | 384 |
| 385 | 386 | 387 | 388 | 389 | 390 |
| 391 | 392 | 393 | 394 | 395 | 396 |
| 397 | 398 | 399 | 400 | 401 | 402 |
| 403 | 404 | 405 | 406 | 407 | 408 |
| 409 | 410 | 411 | 412 | 413 | 414 |
| 415 | 416 | 417 | 418 | 419 | 420 |
| 421 | 422 | 423 | 424 | 425 | 426 |
| 427 | 428 | 429 | 430 | 431 | 432 |
| 433 | 434 | 435 | 436 | 437 | 438 |
| 439 | 440 | 441 | 442 | 443 | 444 |
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| 457 | 458 | 459 | 460 | 461 | 462 |
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| 553 | 554 | 555 | 556 | 557 | 558 |
| 559 | 560 | 561 | 562 | 563 | 564 |
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| 571 | 572 | 573 | 574 | 575 | 576 |
| 577 | 578 | 579 | 580 | 581 | 582 |
| 583 | 584 | 585 | 586 | 587 | 588 |
| 589 | 590 | 591 | 592 | 593 | 594 |
| 595 | 596 | 597 | 598 | 599 | 600 |
| 601 | 602 | 603 | 604 | 605 | 606 |
| 607 | 608 | 609 | 610 | 611 | 612 |
| 613 | 614 | 615 | 616 | 617 | 618 |
| 619 | 620 | 621 | 622 | 623 | 624 |
| 625 | 626 | 627 | 628 | 629 | 630 |
| 631 | 632 | 633 | 634 | 635 | 636 |
| 637 | 638 | 639 | 640 | 641 | 642 |
| 643 | 644 | 645 | 646 | 647 | 648 |
| 649 | 650 | 651 | 652 | 653 | 654 |
| 655 | 656 | 657 | 658 | 659 | 660 |
| 661 | 662 | 663 | 664 | 665 | 666 |
| 667 | 668 | 669 | 670 | 671 | 672 |
| 673 | 674 | 675 | 676 | 677 | 678 |
| 679 | 680 | 681 | 682 | 683 | 684 |
| 685 | 686 | 687 | 688 | 689 | 690 |
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| 697 | 698 | 699 | 700 | 701 | 702 |
| 703 | 704 | 705 | 706 | 707 | 708 |
| 709 | 710 | 711 | 712 | 713 | 714 |
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| 727 | 728 | 729 | 730 | 731 | 732 |
| 733 | 734 | 735 | 736 | 737 | 738 |
| 739 | 740 | 741 | 742 | 743 | 744 |
| 745 | 746 | 747 | 748 | 749 | 750 |
| 751 | 752 | 753 | 754 | 755 | 756 |
| 757 | 758 | 759 | 760 | 761 | 762 |
| 763 | 764 | 765 | 766 | 767 | 768 |
| 769 | 770 | 771 | 772 | 773 | 774 |
| 775 | 776 | 777 | 778 | 779 | 780 |
| 781 | 782 | 783 | 784 | 785 | 786 |
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THE UNIVERSITY OF CHICAGO

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| 535 | 536 | 537 | 538 | 539 | 540 |
| 541 | 542 | 543 | 544 | 545 | 546 |
| 547 | 548 | 549 | 550 | 551 | 552 |
| 553 | 554 | 555 | 556 | 557 | 558 |
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| 571 | 572 | 573 | 574 | 575 | 576 |
| 577 | 578 | 579 | 580 | 581 | 582 |
| 583 | 584 | 585 | 586 | 587 | 588 |
| 589 | 590 | 591 | 592 | 593 | 594 |
| 595 | 596 | 597 | 598 | 599 | 600 |
| 601 | 602 | 603 | 604 | 605 | 606 |
| 607 | 608 | 609 | 610 | 611 | 612 |
| 613 | 614 | 615 | 616 | 617 | 618 |
| 619 | 620 | 621 | 622 | 623 | 624 |
| 625 | 626 | 627 | 628 | 629 | 630 |
| 631 | 632 | 633 | 634 | 635 | 636 |
| 637 | 638 | 639 | 640 | 641 | 642 |
| 643 | 644 | 645 | 646 | 647 | 648 |
| 649 | 650 | 651 | 652 | 653 | 654 |
| 655 | 656 | 657 | 658 | 659 | 660 |
| 661 | 662 | 663 | 664 | 665 | 666 |
| 667 | 668 | 669 | 670 | 671 | 672 |
| 673 | 674 | 675 | 676 | 677 | 678 |
| 679 | 680 | 681 | 682 | 683 | 684 |
| 685 | 686 | 687 | 688 | 689 | 690 |
| 691 | 692 | 693 | 694 | 695 | 696 |
| 697 | 698 | 699 | 700 | 701 | 702 |
| 703 | 704 | 705 | 706 | 707 | 708 |
| 709 | 710 | 711 | 712 | 713 | 714 |
| 715 | 716 | 717 | 718 | 719 | 720 |
| 721 | 722 | 723 | 724 | 725 | 726 |
| 727 | 728 | 729 | 730 | 731 | 732 |
| 733 | 734 | 735 | 736 | 737 | 738 |
| 739 | 740 | 741 | 742 | 743 | 744 |
| 745 | 746 | 747 | 748 | 749 | 750 |
| 751 | 752 | 753 | 754 | 755 | 756 |
| 757 | 758 | 759 | 760 | 761 | 762 |
| 763 | 764 | 765 | 766 | 767 | 768 |
| 769 | 770 | 771 | 772 | 773 | 774 |
| 775 | 776 | 777 | 778 | 779 | 780 |
| 781 | 782 | 783 | 784 | 785 | 786 |
| 787 | 788 | 789 | 790 | 791 | 792 |
| 793 | 794 | 795 | 796 | 797 | 798 |
| 799 | 800 | 801 | 802 | 803 | 804 |
| 805 | 806 | 807 | 808 | 809 | 810 |
| 811 | 812 | 813 | 814 | 815 | 816 |
| 817 | 818 | 819 | 820 | 821 | 822 |
| 823 | 824 | 825 | 826 | 827 | 828 |
| 829 | 830 | 831 | 832 | 833 | 834 |
| 835 | 836 | 837 | 838 | 839 | 840 |
| 841 | 842 | 843 | 844 | 845 | 846 |
| 847 | 848 | 849 | 850 | 851 | 852 |
| 853 | 854 | 855 | 856 | 857 | 858 |
| 859 | 860 | 861 | 862 | 863 | 864 |
| 865 | 866 | 867 | 868 | 869 | 870 |
| 871 | 872 | 873 | 874 | 875 | 876 |
| 877 | 878 | 879 | 880 | 881 | 882 |
| 883 | 884 | 885 | 886 | 887 | 888 |
| 889 | 890 | 891 | 892 | 893 | 894 |
| 895 | 896 | 897 | 898 | 899 | 900 |
| 901 | 902 | 903 | 904 | 905 | 906 |
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| 919 | 920 | 921 | 922 | 923 | 924 |
| 925 | 926 | 927 | 928 | 929 | 930 |
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| 973 | 974 | 975 | 976 | 977 | 978 |
| 979 | 980 | 981 | 982 | 983 | 984 |
| 985 | 986 | 987 | 988 | 989 | 990 |
| 991 | 992 | 993 | 994 | 995 | 996 |
| 997 | 998 | 999 | 1000 | 1001 | 1002 |

DIVISION OF COMMUNICABLE AND OTHER DISEASES

IMMUNIZATIONS AND VACCINATIONS COMPLETED

JANUARY - DECEMBER, 1957

| | <u>Under 1 yr.</u> | <u>1 year</u> | <u>2 - 5 years</u> | <u>6 - 16 years</u> | <u>Over years</u> | <u>TOTAL</u> |
|--|------------------------|---------------|------------------------|-------------------------|-----------------------|--------------|
| Diphtheria Toxoid Tetanus Vaccine Comb. | 22 | 61 | 610 | 1864 | 154 | 2711 |
| Reinforcing doses | 9 | 42 | 355 | 448 | 110 | 964 |
| Diphtheria, Tetanus & Pertussis Comb. | 1223 | 388 | 350 | 19 | - | 1980 |
| Reinforcing doses | 311 | 171 | 292 | 16 | 6 | 796 |
| Smallpox Vaccination | 730 | 413 | 600 | 430 | 3 | 2176 |
| Revaccinations | 7 | 34 | 36 | 31 | 1 | 109 |

MEDICAL RELIEF AND OTHER SERVICES

| | <u>1957</u> | <u>1956</u> |
|--|-------------|-------------|
| Patients visited by district physicians..... | 1661 | 1668 |
| Glasses supplied to school children..... | 396 | 344 |
| Persons receiving insulin..... | 311 | 229 |
| Persons receiving liver extract..... | 21 | 23 |
| Persons receiving prophylactic penicillin..... | 67 | 36 |

(Persons with a history of rheumatic fever receive a daily dose of penicillin as a preventative measure against recurrence of the disease. The Health Department supplies this where economically indicated.)

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Figure 1 | Schematic representation of the experimental design. The study was divided into two parts: a pretest and a main experiment. In the pretest, participants were asked to rate the perceived effort of different tasks. In the main experiment, participants performed a task under three conditions: control, low effort, and high effort. The results of the pretest and main experiment are presented in Figure 2.

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Figure 1 consists of four sub-graphs, (a) through (d), each showing the growth of *E. coli* O157:H7 in ground beef at different temperatures. The y-axis for all graphs is \log_{10} CFU/g, ranging from 0 to 10. The x-axis is time in hours, ranging from 0 to 24. Graph (a) is for 4°C, (b) for 10°C, (c) for 16°C, and (d) for 22°C. In all cases, growth is minimal at 4°C and increases significantly at higher temperatures, with the highest growth rates observed at 22°C.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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u b d f g h i j k l m n o p q r s t u v w x y z

9 8 7 6 5 4 3 2 1

WINNIPEG CITY HEALTH DEPARTMENT

TUBERCULOSIS CONTROL 1957

Continued progress in the control of tuberculosis in Winnipeg is reflected in the following report of the Tuberculosis Division of the City Health Department.

Death Rate

There were 22 deaths in Winnipeg due to tuberculosis. This corresponds to a death rate of 8.7 per 100,000 population. This is almost double the rate for 1956 and the highest since 1952.

| <u>Year</u> | <u>No. of Deaths</u> | <u>Rate per 100,000 population</u> |
|-------------|----------------------|------------------------------------|
| 1930 | 106 | 51. |
| 1940 | 52 | 23. |
| 1950 | 21 | 8.8 |
| 1954 | 17 | 7. |
| 1955 | 17 | 7. |
| 1956 | 12 | 4.7 |
| 1957 | 22 | 8.7 |

Hospitalization

There was a monthly average of 139 patients hospitalized in the various Sanatoria during the year 1957. This is a substantial reduction in the monthly average of patients hospitalized during 1953 (199 patients), in 1954 (191 patients), in 1955 (166 patients) and 1956 (147 patients). The monthly average number of patients in the various Sanatoria were:

| | |
|----------------------------------|-----------|
| Ninette..... | 50 |
| St. Boniface..... | 77 |
| Central Tuberculosis Clinic..... | <u>12</u> |
| Total..... | 139 |

X-ray Surveys

During 1957 the chest X-ray survey programme continued to expand. The mobile 70 mm. machine previously purchased by the Manitoba Sanatorium Board and loaned with staff to the City Health Department, the stationary 4 x 5 X-ray Unit at the City Hall and two other 70 mm. machines (provided by the Manitoba Sanatorium Board for use during the survey of all school children) were all utilized in X-raying a total of 61,064 individuals.

All recipients of public welfare assistance received an x-ray at the City Hall Unit this year as this low income group is considered more susceptible to tuberculosis and many would not be screened in industrial surveys. One new active case was found in this group of 1,012 x-rays.

WINNIPEG CITY HEALTH DEPARTMENT
TUBERCULOSIS CONTROL 1957

Industrial Surveys

One thousand, two hundred and twenty-six (1,126) office, business and industrial concerns were provided with an opportunity for their employees to have a chest X-ray at one or other of the 96 sites where the X-ray machines were set up. Ninety-six per cent (96%) of the employees of these business concerns attended for an X-ray.

Table I lists the activities of the X-ray Units.

Table I 70 mm. Units

| | |
|---|--------|
| No. of operational sites..... | 96 |
| No. of industries X-rayed..... | 1,126 |
| Average Attendance..... | 96% |
| No. of industrial X-rays taken..... | 38,200 |
| No. of school children X-rayed..... | 6,480 |
| No. of private school children X-rayed..... | 925 |
| Total 70 mm. X-rays..... | 45,605 |
| <u>4 x 5 Unit at City Hall</u> | |
| No. of survey, contact and patients X-rayed.. | 10,188 |
| No. of pre-employment X-rays..... | 5,271 |
| Total 4 x 5 X-rays..... | 15,459 |
| TOTAL X-RAYS TAKEN DURING 1957..... | 61,064 |

Eight new cases of pulmonary tuberculosis were discovered during the year which is 13.1% of the total number of new active pulmonary cases discovered by all agencies such as private physicians, Sanatoria, Hospitals, private and public clinics. (See Table II)

Table II Active Cases of Pulmonary Tuberculosis Discovered Annually

| <u>Year</u> | <u>By all means</u> | <u>By City Health Surveys</u> | <u>% of Total found by City Health Surveys</u> |
|-------------|---------------------|-------------------------------|--|
| 1952 | 91 | 25 | 27.5% |
| 1953 | 74 | 26 | 35.1% |
| 1954 | 67 | 17 | 25.4% |
| 1955 | 48 | 11 | 22.9% |
| 1956 | 49 | 9 | 18.3% |
| 1957 | 61 | 8 | 13.1% |

There was a ratio of one new case discovered for every 7,633 individuals X-rayed. Once again the progress that is being made in eradicating this disease is evident in Table III which shows that in 1951, out of every 2,107 individuals X-rayed one new unsuspected case of Tuberculosis was discovered compared to one out of every 7,633 individuals X-rayed in 1957.

$\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{4}$

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WINNIPEG CITY HEALTH DEPARTMENT
TUBERCULOSIS CONTROL 1957

Table III Active Cases of Pulmonary TB Discovered Annually by Surveys

| <u>Year</u> | <u>No. of X-rays</u> | <u>Total Active Cases</u> | <u>Active Cases Rate per 1,000 X-rays</u> |
|-------------|----------------------|---------------------------|---|
| 1951 | 73,734 | 35 | .5 or 1 every 2,107 x-rays |
| 1952 | 52,466 | 25 | .5 or 1 every 2,088 x-rays |
| 1953 | 72,259 | 26 | .4 or 1 every 2,779 x-rays |
| 1954 | 83,883 | 17 | .2 or 1 every 4,934 x-rays |
| 1955 | 49,150 | 11 | .2 or 1 every 4,468 x-rays |
| 1956 | 58,422 | 9 | .1 or 1 every 6,491 x-rays |
| 1957 | 61,064 | 8 | .1 or 1 every 7,633 x-rays |

In addition to these new unsuspected cases of Tuberculosis some individuals were found to have other significant pathology of the lung, heart or great vessels. Such individuals were advised to consult their own physician for further advice or treatment as required.

Table IV shows the source of active cases discovered by the Health Department. It should be noted that there were 1,035 individuals referred to the City Hall by private physicians for chest X-rays and that 1 new active case was discovered among this group or 1 case for every 1,035 physician referrals X-rayed. These referrals were in the main for pre-natal chest X-rays, routine chest X-rays in conjunction with a physical examination or suspect lung pathology. It is interesting to speculate on the reason why 3 of the 8 new cases discovered during the year were discovered by the X-ray Unit at the City Hall among 15,459 X-rays, while only 5 new cases were discovered by the Mobile Units in a total of 45,605 X-rays.

Table IV Source of Active Cases Discovered by the Health Department

| | |
|--|----------|
| Surveys (Industrial and at City Hall)..... | 6 |
| Referred by Private Physician..... | 1 |
| Individuals..... | <u>1</u> |
| Total..... | 8 |

As will be seen in Table V, Tuberculosis discovered on Surveys continues to be found among those individuals who are in the most productive years of their lives. All of the 8 new cases were discovered in the 20 to 60 age group.

Table V Active Cases Discovered through X-rays taken on Survey and at City Hall by Age Group

| <u>Year</u> | <u>0-19 yrs.</u> | | <u>20-39 yrs.</u> | | <u>40-59 yrs.</u> | | <u>60 yrs.</u> | | <u>Total Cases</u> |
|-------------|------------------|----------|-------------------|----------|-------------------|----------|----------------|----------|--------------------|
| | <u>No.</u> | <u>%</u> | <u>No.</u> | <u>%</u> | <u>No.</u> | <u>%</u> | <u>No.</u> | <u>%</u> | |
| 1951 | 10 | 29% | 20 | 57% | 4 | 11% | 1 | 3% | 35 |
| 1952 | 5 | 20% | 16 | 64% | 2 | 8% | 2 | 8% | 25 |
| 1953 | 3 | 12% | 16 | 62% | 5 | 20% | 2 | 8% | 26 |
| 1954 | 5 | 29% | 10 | 59% | 1 | 6% | 1 | 6% | 17 |
| 1955 | 2 | 17% | 4 | 36% | 4 | 36% | 1 | 9% | 11 |
| 1956 | 2 | 22% | 6 | 67% | 1 | 11% | - | - | 9 |
| 1957 | - | - | 6 | 75% | 2 | 25% | - | - | 8 |

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WINNIPEG CITY HEALTH DEPARTMENT
TUBERCULOSIS CONTROL 1957

The extent of disease on discovery for the 8 new cases found was:

| <u>Extent</u> | <u>No. of Cases</u> | |
|---------------------|---------------------|-------------|
| | <u>1956</u> | <u>1957</u> |
| Minimal | 6 | 3 |
| Moderately Advanced | 2 | 3 |
| Far Advanced | 1 | 2 |

----- " " -----

In conclusion the co-operation and assistance extended to the City Health Department by the various agencies concerned with the treatment or control of Tuberculosis has been greatly appreciated. In particular we are grateful to the Manitoba Sanatorium Board through the Central Tuberculosis Clinic for organizing the survey program; for the loan to the City Health Department of technical staff when required; for the interpretation of X-ray films and of various equipment and supplies.

J. B. Morison, M.D.,
Deputy Medical Health Officer.

TUBERCULOSIS CONTROL

TUBERCULOSIS CASES AND SUPERVISION

New diagnosis reported in 1957 (Pulmonary, non-pulmonary and Pleurisy with effusion):

| | | |
|-------------|----|-----|
| Female..... | 44 | |
| Male..... | 64 | 108 |

New cases of Tuberculosis reported to City Health Department in 1957

| | | |
|---|-----------|-----|
| New Diagnosis - Active and Inactive: | | |
| Pulmonary..... | 91 | |
| Non-pulmonary..... | 15 | |
| Pleurisy with effusion..... | 2 | 108 |
| Old cases transferred from outside points into City | <u>48</u> | 156 |

No. of active cases among new diagnosis in 1957:

| | | |
|------------------------------------|-----------|----|
| Pulmonary t.b. active..... | 61 | |
| Pulmonary t.b. activity doubtful.. | 7 | |
| Pleurisy with effusion active..... | 2 | |
| Non-pulmonary tuberculosis..... | <u>14</u> | 84 |

| | |
|--|----|
| Known cases transferred into City during 1957..... | 48 |
| Known cases transferred out of City during 1957..... | 25 |

Average No. Patients in Sanatoria during 1957.....139

Average No. cases under supervision during 1957.....1,298

No. Deaths from Tuberculosis during 1957:

| | | |
|--------------------|----------|----|
| Pulmonary..... | 22 | |
| Non-pulmonary..... | <u>1</u> | 23 |

Reports from Chest Clinics and Sanatoria during 1957:

| | | |
|--------------------------------------|--------------|-------|
| Regarding Tuberculosis Cases..... | 2,304 | |
| Regarding Tuberculosis Contacts..... | <u>1,241</u> | 3,545 |

TUBERCULOSIS CONSULTANT - 1957

| | |
|---|-----|
| Personal interviews in office..... | 20 |
| Conferences with Doctors re patients..... | 156 |
| Conferences with Agencies..... | 65 |
| Visits with patients in Sanatoria..... | 274 |
| Meetings..... | 1 |

Visits of Public Health Nurses to homes of Tb. cases during 1957 - 896

Section 1

Section 2

Section 3

Section 4

Section 5

Section 6

Section 7

Section 8

Section 9

Section 10

Section 11

Section 12

Section 13

Section 14

Section 15

Section 16

TUBERCULOSIS CONTROL

X-RAY EXAMINATIONS

Surveys at City Hall - 4 x 5 Unit:

| | | | |
|-----------------------------|-------|-------------------------------|-------|
| Acme Garments | 83 | Individuals | 3,448 |
| Administrator of Estates of | | Jacob Crowley | 139 |
| Mentally Incompetent | 16 | Julliards | 30 |
| Aetna Roofing | 29 | Junior Wear | 90 |
| Alex Turk Fuel | 14 | Kennedy, G. | 45 |
| Allen, A.A. & Co. | 44 | Labour Temple | 18 |
| A. & P. Foods | 58 | Ladies Kraft | 25 |
| Armstrong Cork | 14 | Leland Hotel | 14 |
| Ashdown's Retail | 93 | Link Belt | 4 |
| Ashdown's Wholesale | 234 | Mall Beauty Salon | 7 |
| Belmore Children's Wear | 35 | Manitoba Barrel & Drum | 8 |
| Birt Saddlery | 13 | Manitoba Club | 50 |
| Can. Aviation Electronics | 7 | Manitoba Pant | 61 |
| Canadian Broadcasting Corp. | 8 | Manitoba Hosp. Service Assoc. | 3 |
| Canadian Garment | 53 | Manitoba Hotel Association | 97 |
| Canadian General Electric | 6 | Manor Hotel | 9 |
| Canadian Red Cross | 5 | Mid-West Garment | 60 |
| Canadian Shirt & Overall | 53 | McCaine Electric | 4 |
| Canadian Sportswear | 97 | National Cloak | 92 |
| Canadian Wheat Board | 10 | New Nanking | 52 |
| Charm Apparel | 33 | Olympic Sportswear | 116 |
| Children's Aid Society | 36 | Peerless Garment | 81 |
| Civic Employees | 1,863 | Pre-Natal | 34 |
| Civic Lunch | 12 | Public Welfare Department | 1,012 |
| Claude Neon-Ruddy Kestor | 75 | Quality Pant | 28 |
| Day Nursery | 15 | Rainbow Lunch | 11 |
| Deluxe Hairdressers | 4 | St. Charles Hotel | 10 |
| Dept. of National Revenue | | St. Regis Hotel | 2 |
| Customs & Excise | 31 | Shanghai | 34 |
| Income Tax | 2 | Sherwin-Williams | 1 |
| Dominion Poultry | 16 | Silpit Industries | 1 |
| Exchange Cafe | 35 | Sinclair, J. M. | 25 |
| Federated Co-operatives | 3 | Stall & Son | 165 |
| Freed & Freed | 82 | Standard Garments | 33 |
| Ginn's Grill | 12 | Stan's Cafe | 20 |
| Grange Coffee Shop | 7 | Stephen's Paint | 65 |
| Grange Hotel | 5 | Sterling Cloak | 172 |
| Greater Wpg. Water District | 3 | Superior Leather | 37 |
| Gunn Garment | 61 | Tuckett's Tobacco | 12 |
| Gypsum Lime & Alabastine | 8 | United Garments | 96 |
| Home Painting & Decorating | 16 | University of Manitoba | 261 |
| H. & R. Manufacturers | 57 | Western Garment | 38 |
| Hudson Paper Co. | 48 | Western Shirt & Overall | 127 |
| Hy-Fashion | 6 | Winnipeg & Central Gas | 1 |
| Immigration | 189 | Winnipeg Pant Manufacturing | 59 |

Total number of X-rays taken at City Hall during 1957 for Surveys
and Individuals.....10,188

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LIBRARY

1900

THE UNIVERSITY OF CHICAGO
LIBRARY
1900

TUBERCULOSIS CONTROL

PRE-EMPLOYMENT FILMS TAKEN AT CITY HALL

| | | | |
|-------------------------------|-------|---------------------------|-----|
| A. & P. Foods | 30 | Kimberley-Clark | 23 |
| Bristol Aircraft Ltd. | 180 | Kindergarten Teachers | 2 |
| Canada Packers | 48 | Lever Brothers | 7 |
| Canadian Aviation Electronics | 47 | Manitoba Club | 14 |
| Canadian Fire Insurance | 34 | Manitoba Power Commission | 2 |
| Canadian Garment | 1 | Manitoba Telephone System | 622 |
| Canadian Industries Ltd. | 14 | Marshall Wells | 20 |
| Canadian Liquid Air | 1 | Moore Business Forms | 58 |
| Canadian Pacific Railway | 754 | Moore Nursing Home | 1 |
| Canadian Westinghouse | 27 | McColl-Fontenace | 11 |
| Canadian Wheat Board | 53 | McLean, G. Co. | 28 |
| Christie Brown | 47 | New Nanking | 1 |
| Civic Employees | 395 | Paulin Chambers | 136 |
| Coca Cola | 1 | Royal Bank of Canada | 213 |
| Dept. of National Revenue | 47 | Royal Trust | 8 |
| Dominion Poultry | 38 | St. Regis Hotel | 4 |
| Dupont | 6 | Shop-Easy | 5 |
| Eaton's | 1,197 | Telecable & Wire | 31 |
| Federated Co-operatives | 11 | Toronto Dominion Bank | 1 |
| Great West Life | 248 | Trans Canada Fur Dressers | 3 |
| Greater Wpg. Transit Com. | 119 | Tuckett's Tobbaco | 1 |
| Greater Wpg. Water District | 11 | Victorian Order of Nurses | 7 |
| Hudson Bay House | 21 | Weston's Bakeries | 27 |
| Hudson Bay Store | 4 | Winnipeg & Central Gas | 137 |
| Imperial Bank | 1 | Winnipeg Electric Company | 193 |
| Imperial Tobacco | 21 | Winnipeg School Board | 288 |
| International Harvesters | 72 | | |

Total number of Pre-employment films taken at City Hall during 1957..... 5,271

Total X-rays taken at City Hall for Surveys, Individuals and Referred by Doctor during 1957.....10,188

Total X-rays taken at City Hall during 1957.....15,459

OUTSIDE AND INDUSTRIAL SURVEYS - 70 mm. Unit

PUBLIC SCHOOL CHILDREN

| | |
|---------------------------|-------|
| Churchill High..... | 1,054 |
| Daniel McIntyre..... | 977 |
| Gordon Bell..... | 460 |
| Isaac Newton..... | 579 |
| Kelvin..... | 856 |
| Lord Selkirk..... | 1,084 |
| St. John's Tech..... | 688 |
| Technical Vocational..... | 782 |

SEPARATE SCHOOLS & COLLEGES

| | |
|--------------------------------|-----|
| Manitoba Technical Institute.. | 644 |
| Sucess Commercial College..... | 281 |

Total number of Public School Children X-rayed..... 6,480

Total number of Private School Children X-rayed..... 925

Total number of School Children X-rayed during 1957..... 7,405

1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the problem and the objectives of the research. The second part of the report is a detailed description of the methods used in the study. This includes a description of the experimental design, the data collection procedures, and the statistical methods used to analyze the data. The third part of the report is a discussion of the results of the study. This includes a description of the findings and a comparison of the results with previous research. The fourth part of the report is a conclusion and a list of references.

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X-RAY EXAMINATIONSOUTSIDE AND INDUSTRIAL SURVEYS - 70 mm. Unit

| | | | |
|--|-------|-------------------------------|-------|
| Alpha Manufacturing | 196 | Manitoba Telephone System | 1,624 |
| Bank of Montreal | 227 | Marlborough Hotel | 180 |
| Bank of Nova Scotia | 672 | Master Textiles | 98 |
| Bonar Bemis Ltd. | 268 | Merchant's Consolidated | 259 |
| Bristol Aircraft Ltd. | 919 | Mitchell Copp | 274 |
| British American Oil | 90 | Monarch Wear | 395 |
| Brown & Rutherford | 100 | Moore's Business Forms | 201 |
| Burns & Co. Ltd. | 524 | Moore's Taxi | 65 |
| Canada Bread | 139 | Motor Coach Industries | 252 |
| Canada Malting | 214 | McDonald Brothers Sheet Metal | 249 |
| Canada Packers | 948 | National Drugs | 118 |
| Canada West Shoe | 153 | National Motors | 195 |
| Canadian Aviation Electronics | 147 | Northern Electric | 91 |
| Canadian Broadcasting Corp. | 306 | Northwest Laundry | 66 |
| Canadian General Electric | 94 | Paris Building | 445 |
| Canadian Red Cross | 64 | Parkhill Bedding | 155 |
| Canadian Westinghouse | 133 | Peerless Laundry | 123 |
| Canadian Wheat Board | 595 | People's Co-operative Ltd. | 117 |
| Carling's Brewery | 250 | Perth's Laundry | 395 |
| Carter Motors | 250 | Police Department | 569 |
| Case, J. I. | 216 | Post Office | 433 |
| Central Police Station | 251 | Quinton's Limited | 78 |
| Christie Brown | 131 | Ray-O-Vac | 124 |
| Civic Employees | 1,177 | Rice Sportswear | 98 |
| Civic Servants | 1,159 | Rumford's Ltd. | 113 |
| Coca Cola | 97 | St. Regis Hotel | 127 |
| Cockshutt Plow | 82 | Scott Memorial Hall | 400 |
| Community Chevrolet | 96 | Shea's Brewery | 187 |
| Crane Limited | 423 | Sherwin-Williams | 150 |
| Crescent Creamery | 132 | Silverwood's Dairies | 130 |
| Curry Building | 628 | Simmon's Limited | 101 |
| Diecast Products | 194 | Somerset Building | 490 |
| Dominion Motors | 415 | Standard Aero Engine | 310 |
| Dominion Public Bldg. | 543 | Standard Dairies | 113 |
| Eaton's | 7,364 | Steven's & Sons | 242 |
| Fleming Pedlar | 127 | Stovel Advocate | 254 |
| General Steelware | 97 | Swift Canadian Co. Ltd. | 653 |
| Goldenberg Manufacturing | 56 | Trans Canada Airlines | 1,160 |
| Greater Wpg. Transit Commission | 681 | Trans Canada Fur Dressers | 114 |
| Gypsum, Lime & Alabastine | 159 | Tribune | 242 |
| Headingly Goal | 337 | Underwood | 965 |
| Hecht, J. H. & Son | 94 | Victoria Leather | 126 |
| Hercules Manufacturing | 96 | Vulcan Iron | 268 |
| Hilton Brothers | 205 | Walter Woods | 71 |
| Hudson Bay House | 277 | Western Flyer Coach | 156 |
| Imperial Oil | 163 | Western Furnace & Roofing | 197 |
| International Harvesters | 157 | Western Glove | 160 |
| Kimberley-Clark | 60 | Western Gypsum Products | 103 |
| Kingdon Printing | 140 | Weston's Bakeries | 182 |
| Liquor Control Commission | 247 | Winnipeg & Central Gas | 679 |
| Manitoba Hospital Service Assoc. | 122 | Wood, J. | 118 |
| Manitoba Power Commission | 456 | Woods Manufacturing | 126 |
| Manitoba Technical Institute | 417 | Y.M.C.A. | 571 |
| Total X-rays taken on Industrial Surveys (70 mm. Unit)-Industries. | | 38,200 | |
| | | Schools..... | 7,405 |
| Total X-rays taken at City Hall (4 x 5 Unit)..... | | 15,459 | |
| Total No. Chest X-ray films taken in City during 1957..... | | 61,064 | |

MEDICAL AND NURSING SERVICES

SUPERVISORY REPORT

| | |
|---|-------|
| Conference in District Office (staff) | 2,579 |
| Conference in District Office (other than staff) | 286 |
| Supervisory visits (home, school, child health centre, pre-natal class | 298 |
| Meetings (District Office Staff) | 79 |
| Meetings (Supervisory or other) | 100 |
| Inspection for licensing of boarding homes | 89 |

CHILDREN EXAMINED FOR FRESH AIR CAMPS

| | |
|---------------------------------|------------|
| Camp Morton | 278 |
| Anglican Camp | 53 |
| Salvation Army Camp | 265 |
| C.G.I.T. | 105 |
| Y.M.C.A. | 235 |
| Y.W.C.A. | 145 |
| Camp Playmore | 174 |
| United Church Camp | 486 |
| Camp Funland | 172 |
| Camp Frailach | 159 |
| Logan Neighbourhood House | 84 |
| Lakeside Camp | <u>162</u> |

TOTAL 2,248

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VICTORIAN ORDER OF NURSES SERVICE SUMMARY FOR THE YEAR 1958

Total number of new cases 2,341

Nursing Care Visits:

| | |
|------------------|--------|
| Pre-Natal | 57 |
| Post-Natal | 56 |
| Newborn | 559 |
| Infant | 81 |
| Pre-School | 88 |
| School | 72 |
| Adult | 36,222 |

Health Instruct Visits:

| | |
|------------------|-----|
| Pre-Natal | 32 |
| Post-Natal | 531 |
| Newborn | 546 |
| Infant | 618 |
| Pre-School | 80 |
| School | 28 |
| Adult | 596 |

Not Seen 631

On behalf of patient 26

TOTAL 40,223

DIVISION OF CHILD MEDICAL SERVICES

Accidents Reviewed

Total accidents reported by Principal and Nurse 959

| <u>Communicable Diseases in School Children</u> | <u>1956</u> | <u>1957</u> |
|---|-------------|-------------|
| Total number of Chickenpox | 141 | 146 |
| Total number of Measles | 147 | 387 |
| Total number of Mumps | 143 | 60 |
| Total number of Scarlet Fever | 27 | 37 |
| Total number of Whooping Cough | 25 | 8 |
| Total number of Poliomyelitis | 1 | 2 |

Report on Health Inspection of School Children by Public Health Nurse

Pupils examined in Health Service Rooms by nurses 32,625

| | |
|------------------------------------|-------|
| Exclusion from school | 4,007 |
| Miscellaneous | 2,481 |
| Pediculosis | 176 |
| Skin conditions | 623 |
| Suspect communicable disease | 727 |

| | |
|---|--------|
| Others for admission and re-admission | 2,336 |
| Treatments given, accidents, etc. | 14,794 |
| Children prepared for complete physical | 11,488 |

| | |
|---|-------|
| Classroom inspections by school nurse | 2,290 |
| General | 2,140 |
| Acute Communicable | 150 |

| | |
|--------------------------------------|--------|
| Conferences re pupils by nurse | 89,810 |
| With pupil | 55,000 |
| With parent | 15,823 |
| With teacher | 2,883 |
| With others | 15,270 |
| District Conferences | 106 |
| Group teaching in classroom | 728 |

Home visits to school children made by nurses (exclusive of communicable disease visits) 4,940

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DIVISION OF PUBLIC HEALTH NURSES

Personal Services to Patients by Public Health Nurses

(Including visits and instruction by telephone from District Office)

| | <u>HOME</u> | <u>DISTRICT OFFICE</u> |
|-------------------------------------|-------------|------------------------|
| Health: Newborn | 5,440 | 124 |
| Under 1 year | 4,766 | 734 |
| Pre-school children | 8,532 | 715 |
| School children | 5,841 | 1,029 |
| Adults | 5,437 | 560 |
| Pre-Natal | 515 | 213 |
| Post-Natal | 5,381 | 109 |
| Attendance at Pre-Natal Class | - | 2,628 |
| Morbidity: Tuberculosis | 888 | 301 |
| Acute Communicable | 404 | 39 |
| Non-communicable | 688 | 42 |
| Unclassified: Not found | 4,113 | 105 |
| Not taken under care | 125 | 2 |
| Special activity | <u>507</u> | <u>61</u> |
| TOTALS | 42,637 | 6,662 |

DIVISION OF CHILD MEDICAL SERVICES

OCULIST'S REPORT

| | |
|---|-------|
| Number of clinics held | 262 |
| Number of children examined: | |
| New | 591 |
| Re-examined | 418 |
| | 1,009 |
| 1. Refractions completed | 583 |
| 2. Refractions not completed | 298 |
| 3. Refractions not needed | 50 |
| 4. Returned for observation | 92 |
| Completed refractions | 569 |
| Not needing glasses | 138 |
| Glasses prescribed | 370 |
| No change in prescription | 61 |
| Children found with 1/3 or less of normal vision with glasses | 5 |
| Glasses discontinued | 6 |
| Out-Patient Consultations | 1,385 |
| Referred to Orthoptic Clinic | 41 |

AUDIOMETRY REPORT

| | |
|----------------------------------|-------|
| Number of children tested | 5,743 |
| First tests | 4,806 |
| Re-tests | 937 |
| Number of defects | 276 |
| Teachers and others tested | 1,078 |

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DIVISION OF PUBLIC HEALTH NURSING

Child Health Centres

| | |
|---|--------|
| No. of Child Health Centres | 10 |
| No. of Child Health Centre sessions held | 426 |
| No. of new babies admitted | 1,664 |
| Infants | 1,248 |
| Pre-school | 416 |
| Total attendance at sessions | 19,649 |
| Infants | 9,228 |
| Pre-School | 10,421 |
| No. of doctors' examinations | 1,932 |
| Infants | 1,493 |
| Pre-school | 439 |
| No. of doctors' consultations with mothers | 216 |
| No. of home visits re child hygiene (birth registrations, etc.) | 24,867 |
| No. of immunizations by doctors at Child Health Centres | 14,438 |

ATTENDANCE AT CHILD HEALTH CENTRES

| | |
|---------------------------|-------------------------|
| Harrow United | 2,398 for 41 afternoons |
| St. Matthews | 2,630 for 42 afternoons |
| St. Judes | 2,326 for 44 afternoons |
| Sparling | 897 for 41 afternoons |
| St. Andrews | 2,190 for 43 afternoons |
| Holy Trinity | 1,743 for 45 afternoons |
| Chalmers | 1,571 for 42 afternoons |
| Mount Carmel Clinic | 1,004 for 42 afternoons |
| Robertson House | 3,164 for 44 afternoons |
| Stella Mission | 1,726 for 42 afternoons |

Physical Examinations of School Children

| | |
|--|-------|
| 1. Total number of children examined by medical examiners | 6,856 |
| 2. Total number of children with one or more defects | 3,401 |
| 3. Total number of children with defects for which treatment has been completed or provided for | 576 |
| 4. Total number of children examined by doctor for special reasons | 635 |
| 5. Total number of parents invited to physical examination | 3,668 |
| 6. Total number of parents present at physical examination | 2,223 |

ANNUAL REPORT 1957
CHILD DENTAL SERVICES
HEALTH DEPARTMENT CITY OF WINNIPEG

During the Spring of 1957 the Health Committee of the City Council and a Committee of Dentists, appointed by the Winnipeg Dental Society, reviewed the operation of the School Dental Clinic located in the School Board Office building. Recommendations were made for the appointment of a full time dental director with public health training, to re-organize and establish the School Dental Service on a more efficient and satisfactory working basis, and to take full advantage from the benefits of the expenditure of this service, in promoting and improving the dental health of the City's school children. In mid-August of 1957 Dr. C.H. McCormick was appointed full time director of Child Dental Services for the City of Winnipeg.

A review of the dental services resulted in the following program being instituted. In order to establish a definite plan for dental treatment in the City, a policy was adopted to give as complete as possible coverage of all indigent children in Grade I throughout the City, and all other indigent children to be treated on an emergency basis only. This policy was adopted as a result of the present shortage of dentists on staff and also to expand the benefits of a dental program on a systematic basis. With this scheme dental appointments are booked three weeks in advance and a long waiting list of this age group await allocation of appointment times.

The staff of the Child Dental Services consists of a Director, seven dentists hired on a three hour session basis per day, three clerks and one part-time dental assistant.

The dentists on staff are all members of the Winnipeg Dental Society, three who have retired from private practice (Drs. Morrison, White and Wright); the remaining four have been generous enough to allot time from their private practices (Drs. O.R. Sarchuk, J. Slogan, A. LaChance, and A. Pommer). Dr. R.W. Scott retired from the staff of the Dental Services in June of this year. The Child Dental Services budget for 1957 provided for 942 dentist sessions.

The Winnipeg School District includes some 45,000 school children, with a Central Dental Clinic located in the School Board Offices Building, to attend to the needs of all indigent and underprivileged children of this group. As of October, 1957, there were 6,300 dental charts on file (kindergarten to Grade VI inclusive). A review of the patients submitting for treatment during the month of September, revealed 81% classified to be eligible, as indigents, for treatment in the Clinic. Beginning in October, all patients accepted for treatment were indigent as classified by the school nurse and by a signed statement by the parents.

Results of a Grade I survey made during October and November, 1957, which included 22 schools selected at random and a total of 1,669 children examined, showed that 429 parents requested the City's treatment facilities. Screening of this group by the school nurse reduced this number to 329, leaving 19% still classed as eligible for City Dental Services. There are approximately 7,000 Grade I children in the City of Winnipeg. Using the above percentage it would suggest there are 1400 Grade I children alone needing financial assistance for dental work.

An average child of six years, having never visited a dentist, requires a minimum of 2 hours dental work (U.S.P.S.). This particular group of indigent children would require 933 dental sessions to be placed in a dentally fit condition;

the 1957 budget allows for 942 sessions for the entire elementary school system. On the basis that Grade I represents one sixth of the elementary school population, the established minimum number of sessions required would be 5,598 or the services of 12 full time dentists. Four times the present establishment would be necessary to give adequate coverage of the indigent group of children in the elementary grades.

During the school examinations in 1957 a dental education kit was distributed to the Grade I teachers, prepared and issued by the Department of Health and Welfare of the Province of Manitoba. The dentists of the school clinic availed themselves as consultants in aiding and promoting dental health programs that teachers cared to institute, in attending Home and School meetings, as well as in other speaking engagements. The school examinations also revealed that 57% of the Grade I children were visiting a family dentist, but not necessarily having all dental work done or completed.

School Dental Treatment Service, 1957

| | <u>TOTAL</u> |
|---------------------------------------|--------------|
| Patients treated | 3,572 |
| Completed patients | 2,136 |
| Teeth filled | 2,618 |
| Teeth extracted | 2,078 |
| Deciduous 1,534 Permanent 544 | |
| Missed appointments (Sept. - Dec.)... | 108 |
| New patients entering clinic | 1,593 |

Prevention and control is the answer to the dental disease problem, and this must of necessity begin early with the young child. Most children, at present, are not receiving dental supervision in time to obtain the benefits of prevention. The objective of the School Dental Program is to foster and encourage

all aspects of improving the condition through dental education, motivation and early dental treatment, and supervision by the Family Dentist where possible, but when the child is indigent, through the facilities of the City's Dental Clinic.

Dental care, commencing at an early age, and furnished on an annual incremental basis, requires less service time than meeting accumulative needs, and therefore makes for more effective utilization of available dental personnel.

It is of little value, year after year, to discover and announce that a child has defective teeth, vision, hearing, etc., if nothing is done to correct the defect. With our present limited dental resources, it is important that one start out in an organized manner and one from which, as time passes, a larger and more effective dental program will develop.

REPORT OF SCHOOL MEDICAL SERVICES, 1957 - 1958

As pointed out in the previous report (1956-1957), the mass periodic examination of school children has been largely eliminated because we have felt it was wasteful of time and personnel and the results obtained were of comparatively little value. An examination done by the family physician is much more valuable and we have experienced first class cooperation with the medical profession in obtaining information which might affect the child's school health. This spirit of cooperation has been encouraged by relaying to the family doctor, information in regard to a child's health which has come to our attention and which we feel the child's physician should know.

The present program, in brief, includes:

- 1) Examination of all school entrants who have not been examined by a private physician. (approximately 50% of all entrants).
- 2) Yearly check of vision.
- 3) Hearing tests with department audiometer by City Health Department audiometrist on all Grade IV pupils and any others referred by teacher, principal or school nurse, or requested by private or school physician. More than 1,000 such tests were done from April 1 to June 30, 1958.
- 4) Medical interview of Grade VII and Grade IX pupils selected from results of an annual medical questionnaire. Only those presenting health problems which might interfere with their school attendance or performance are seen. The emphasis is on problems of vision, hearing, heart disease, epilepsy, diabetes, physical disability and frequent illness causing an undue amount of absenteeism. It has been our experience that approximately 47% of all school children in Grades VII and IX are seen by private doctors at least once a year.
- 5) Any school child referred by principal, teacher or school nurse.
- 6) A continuing program of immunization clinics against Diphtheria, Tetanus, Whooping Cough and Poliomyelitis.
- 7) An educational program including specially prepared articles for school teachers' bulletins and meetings with school teachers on the subject of school health.
- 8) A registry maintained in the City Health Department with the assistance of a Dominion-Provincial Health Grant of all handicapping conditions affecting school children.
- 9) Medical review by conference with public health workers, Child Guidance Clinic and appropriate medical specialists of school children with serious hearing and vision problems. Recommendation for special vision class has been made in eighteen cases and a special class for these seriously handicapped children is now in operation.

A statistical breakdown of the results of medical questionnaires and interviews by school nurse and doctor is attached.

Respectfully submitted,

Harry Medovy, M.D.
Consultant Child Care Services.

RESULTS OF GRADE VII HEALTH CHECK LIST

| | <u>NORTH</u> | <u>WEST</u> | <u>SOUTH</u> | <u>EAST</u> | <u>TOTAL</u> | <u>%</u> |
|----------------------------------|--------------|-------------|--------------|-------------|--------------|----------|
| No. of Grade VII pupils | 875 | 742 | 785 | 701 | 3,103 | 100 % |
| No. having private doctor exam | 394 | 285 | 538 | 262 | 1,479 | 47.7 |
| No. parents requesting exam | 67 | 102 | - | 36 | 205 | 9.6 |
| No. reporting vision defects | 110 | 63 | 69 | 56 | 298 | 9.6 |
| No. pupils wearing glasses | 186 | 98 | 74 | 112 | 470 | 15.1 |
| No. having glasses changed | 58 | 38 | 26 | 28 | 150 | 4.8 |
| No. receiving new glasses | 32 | 52 | 33 | 41 | 158 | 5.1 |
| No. headaches due to vision | 9 | 22 | 11 | 10 | 52 | 1.7 |
| No. reporting hearing defects | 32 | 11 | 17 | 16 | 76 | 2.4 |
| Hearing defects found after test | 9 | 5 | 4 | 1 | 19 | .6 |

RESULTS OF GRADE X HEALTH CHECK LIST

| | <u>NORTH</u> | <u>WEST</u> | <u>SOUTH</u> | <u>EAST</u> | <u>TOTAL</u> | <u>%</u> |
|----------------------------------|--------------|-------------|--------------|-------------|--------------|----------|
| No. of Grade X pupils | 521 | 901 | 567 | 430 | 2,419 | 100 % |
| No. having private doctor exam | 279 | 356 | 290 | 215 | 1,140 | 47.1 |
| No. having private dental exam | 351 | 461 | 410 | 293 | 1,515 | 62.6 |
| No. wearing glasses | 160 | 241 | 144 | 152 | 697 | 28.8 |
| No. requiring new glasses | 39 | 65 | 26 | 57 | 187 | 7.7 |
| No. requiring glasses first time | 45 | 63 | 20 | 21 | 149 | 6.2 |
| Headaches due to vision | 5 | 9 | 1 | 2 | 17 | .7 |
| Organic hearing defects | 0 | 2 | 4 | 1 | 7 | .3 |
| Temporary hearing defects | 2 | 1 | 3 | 2 | 8 | .3 |

In addition, the following figures are also of interest:

| | |
|--|--------|
| Number of school children (excluding parochial) | 41,000 |
| Treatments given in schools, accidents, etc. | 4,765 |
| School children examined by school physician | 4,168 |
| Classroom inspections by City Health nurse | 613 |
| Accidents in schools | 299 |
| Children specially referred for school physician examination | 197 |
| No. of parents attending examination of child | 909 |
| No. of doctor's visits to schools (2 hour session) | 196 |
| No. of home visits by school nurse re school children | 1,664 |
| No. of parochial schools visited by nurse | 11 |

REPORT OF WELFARE INSTITUTIONS 1957

I NURSING HOMES AND BOARDING CARE HOMES

No. of nursing homes 24

No. of boarding care homes 6

Total number of public cases in Nursing Homes and

Boarding Care Homes 521

II CHILD CARING INSTITUTIONS

No. of Day Nurseries 5

No. of Nursery Schools 13

No. of Foster Homes, Hostels, etc. 11

TOTAL 39

Average monthly attendance 1,153

ANNUAL REPORT - 1957

I N S P E C T I O N S B R A N C H

| | | | |
|------------------------|---------------------|-------------|----------------------------|
| Dairy | Principal Inspector | R. Bentham | Cert. R. San. 1 |
| Food | " " | R.C. Morrow | D.V.M., C.S.I.(C) |
| Housing | " " | G.W. Kelly | Cert. R. San. 1, C.S.I.(C) |
| Sanitation & Hygiene | " " | A. Cross | Cert. R. San.1, C.S.I.(C) |
| Laboratory | Senior Technician | H. Robinson | Cert. R. San. 1. |
| Chief Health Inspector | | E.J. Rigby | D.V.M., B.S.A. C.S.I.(C) |

The work of the Branch during the year was curtailed to some extent by a shortage of staff. The shortage existing at the start of the year was aggravated by the resignations of four experienced Health Inspectors. When it was found that qualified inspectors were not available for hire, authority was obtained to conduct a training course for sanitary inspectors. In co-operation with the Provincial Departments of Education and Health plans were made to conduct a course starting early in 1958 for fifteen students at the Manitoba Technical Institute.

HOUSING DIVISION:

Late in 1956 the Zoning By-law was amended to provide, effective January 1957, that enforcement of all provisions of the By-law would be the responsibility of the Commissioner of Buildings. Concurrent with this change the establishment for Health Inspectors was reduced by three. One Health Inspector, experienced in certain phases of the Zoning By-law was transferred to the Engineering Department. This transfer of work permitted this department to give closer attention to the enforcement of Public Health Act regulations respecting "rooming and lodging houses". These regulations enacted late in 1956 enabled the department to take measures to improve housing conditions in the City. The detailed report of the Housing Division will indicate that considerable progress was made.

DAIRY DIVISION:

Improvement in the quality of milk shipped and the sanitary condition of milk producer's premises continued. Frequent testing of samples of milk and cream sold in the City indicated that the supply is safe and of the highest quality. The handling of milk on producer's premises and hauling of it by bulk tanks was introduced with considerable success during the year. Probably due to the efficient cooling of the milk in bulks tanks and the keeping of contamination to a minimum the quality of milk handled in bulk by tanks and trucks has been very good. Regulations governing the installation and operation of bulk tanks were drafted in co-operation with the Dairy Commissioner of Manitoba.

All milk and cream sold for consumption in Winnipeg is now pasteurized. The only distributor of raw milk ceased operation as a producer-distributor and is now operating as a producer shipping his milk to a pasteurization plant.

INSPECTIONS BRANCH
(Cont'd)

FOOD DIVISION:

Effective March 1, 1957, the Liquor Control Act provided four types of liquor outlets in addition to beer parlors which had been in operation for many years. The amendments to the Act made provision for several types of outlets all of which were required to have food available for consumption on the premises. Arrangements were made with the Liquor Control Commission providing that all liquor outlets must meet satisfactory standards and be approved by the Medical Health Officer or his representatives before a license to operate was issued. This involved a considerable increase in work for the Food Division. Progress was made in improving sanitary conditions in restaurants and other food handling establishments. We are pleased to report that food poisoning outbreaks were limited to one or two persons at a time and no outbreaks occurred in the City involving a group of people.

SANITATION AND HYGIENE DIVISION:

The work of the division is covered in some detail in the report prepared by Principal Inspector A. Cross. A considerable number of complaints concerning nuisances created by pigeons were received during the year. Methods for combatting this alleged nuisance were given careful consideration by the Health Committee, who authorized late in 1957 that one of our inspectors be granted permission to shoot pigeons in localities where such birds were creating a nuisance.

Reports dealing with the activities of the various divisions follow.

E.J. Rigby,
CHIEF HEALTH INSPECTOR.

I N S P E C T I O N S B R A N C H

FOOD DIVISION

January to December 1957

| | <u>Inspections</u> | <u>Contacts</u> |
|---|--------------------|-----------------|
| Abattoirs..... | 1 | 18 |
| Bakeries..... | 533 | 88 |
| Beer parlors..... | 264 | 101 |
| Bottling plants..... | 21 | 31 |
| Candy manufacturers..... | 56 | 20 |
| Canteens..... | 226 | 55 |
| Caterers..... | 157 | 59 |
| Cereal mills..... | 12 | 36 |
| Dance halls (banquet)..... | 200 | 8 |
| Fish and chips..... | 11 | 7 |
| Fish-filleting, cold storage, etc..... | 36 | 56 |
| Frozen food locker plants..... | 19 | 9 |
| Ice cream parlors..... | 28 | 35 |
| Ice houses and depots..... | 14 | 5 |
| Pickle and vinegar factories..... | 12 | 11 |
| Poultry slaughterhouses..... | 61 | 44 |
| Producer's markets, vegetable stalls..... | 29 | 42 |
| Restaurants..... | 4,260 | 866 |
| Retail food stores, grocers, butchers, etc..... | 3,451 | 433 |
| Sausage factories..... | 155 | 79 |
| Wholesale-groceries, vegetables..... | 103 | 42 |
| Vehicles..... | 69 | 19 |
| Fires in food establishments..... | 47 | 87 |
| Vending machines..... | 44 | 6 |
| Special calls..... | 275 | 64 |
| Hospital kitchens..... | 2 | 5 |
| Lectures..... | 5 | |
| Miscellaneous calls..... | 86 | 50 |

Plans approved..... 111

Complaints..... 249

Notices:
 Verbal..... 3,059
 Written..... 617

Samples examined:
 Food..... 1,534
 Ice..... 3
 Water..... 5

Prosecutions..... 1

Bacteriological tests (June 1 to Dec. 31)

Restaurants, Beer parlors, Hotel kitchens

No. Premises No. Utensils

465 2,626

DIVISION OF INSPECTIONS
FOOD DIVISION
January to December, 1957
(Cont'd)

Condemnations:

| | |
|-----------------------------|------------|
| Bakery products..... | 267 lbs. |
| Candy..... | 638 " |
| Canned goods..... | 3,424 " |
| Cereals..... | 7,491 " |
| Eggs..... | 18 dozen |
| Fish..... | 1,321 lbs. |
| Fruit and vegetables..... | 2,961 " |
| Meat and meat products..... | 1,539 " |
| Poultry..... | 1,354 " |
| Salt..... | 10 " |
| Sauces..... | 217 " |
| Yeast..... | 645 " |

I N S P E C T I O N S B R A N C H

DAIRY DIVISION

January to December - 1957

| | | <u>Inspections</u> | <u>Contacts</u> |
|-----------------|--------------------------------------|--------------------|-----------------|
| <u>COUNTRY:</u> | Milk Producers..... | 3,620 | 1,709 |
| | Producer-Distributors..... | 43 | --- |
| | Prospective Producers..... | 97 | 15 |
| | Milk Haulers..... | 327 | --- |
| <u>CITY:</u> | Pasteurization Plants (10 licensed). | 491 | 2,519 |
| | Ice-cream Manufacturers..... | 439 | |
| | Counter Freezers..... | 652 | |
| | Butter Plants..... | 215 | |
| | Cheese Plants..... | 160 | |
| | Vehicles-Delivery..... | 85 | |
| | Cans Inspected..... | 7,946 | |
| | Swabs of Equipment..... | 2 | |
| <u>SAMPLES</u> | Water..... | 74 | |
| <u>TAKEN:</u> | Milk Retail..... | 1,475 | |
| | Milk Shippers..... | 28,512 | |
| | Cream..... | 574 | |
| | Ice-cream..... | 720 | |
| | Bottles for Sterility..... | 65 | |
| | Special Samples..... | 1,451 | |
| <u>GENERAL:</u> | Special Calls..... | 1,572 | |
| | New Permits Issued..... | 46 | |
| | Cancellations..... | 130 | |
| | Complaints..... | 10 | |
| | Temperatures Taken..... | 9,193 | |
| | Milk Condemned..... | 270 lbs. | |
| | Cans Condemned..... | 539 | |
| | Samples Tested..... | 2,905 | |
| | Letters Sent Re: Premises..... | 1,586 | |
| | Notices Sent Re: Quality of Milk.... | 8,468 | |
| | Notices Sent Re: Poor Cans..... | 305 | |

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I N S P E C T I O N S B R A N C H

BACTERIOLOGICAL LABORATORY

January to December - 1957

| | | |
|-----------------------------|----------------------------------|--------|
| <u>WATER ANALYSIS</u> | Standard Plate Count..... | 2,845 |
| | Presumptive Test..... | 2,845 |
| | Confirmed Test..... | 833 |
| | Average No. Bacteria per/ml..... | 7.61 |
| <u>MILK AND CREAM</u> | Standard Plate Count..... | 2,080 |
| | Babcock Test..... | 2,030 |
| | Coliform Test..... | 2,137 |
| | Phosphatase Test..... | 2,096 |
| | Resazurin Test..... | 29,095 |
| <u>ICE CREAM</u> | Standard Plate Count..... | 596 |
| | Coliform Test..... | 730 |
| <u>MILK BOTTLES</u> | Bacterial Test..... | 65 |
| <u>DIAGNOSTIC</u> | Diphtheria Swabs..... | 308 |
| | Sputa for T.B..... | 2 |
| | Smears for G.C..... | 1 |
| | Urinalysis..... | 444 |
| | Miscellaneous..... | 46 |
| <u>TOTAL TESTS</u> | | 46,153 |

Y E A R 1 9 5 7

HOUSING DIVISION - WINNIPEG HEALTH DEPARTMENT

Inspections and reinspections: 6,592

Complaints attended to: 1,352

Notices Issued:

Verbal warnings: 1,928
Letters of warning: 63
Mandatory notices: 802
Closing notices: 237
Sewer and water notices: 1

Premises placarded "Unsanitary": 99

Violations or defects remedied
during the year under orders from
the Division

Police Court summonses issued:
47

Overcrowding remedied: 61 families
Damp or dark cellars vacated: 19 cellars
Unsatisfactory attics vacated: 43 attics
Dirt buildings cleansed throughout:
219 buildings
Fly screens and/or storm sash provided:
187 buildings
Bed bugs exterminated: 116 buildings
Cockroaches exterminated: 90 buildings
Rats or mice exterminated:
39 residential properties
Defective plumbing repaired: 219 buildings
Additional plumbing installed to comply
with roominghouse regulations:
229 roominghouses
Hot water provided: 95 buildings
Walls, ceilings, floors repaired:
176 buildings
Redecorated: 219 buildings
Leaky roofs repaired: 44 buildings
Defective eavestroughing renewed:
47 buildings
Sufficient heat provided: 267 buildings
Defective cellars repaired: 50 cellars
Defective heating equipment renewed:
69 buildings
Gas stoves removed from bedrooms:
119 rooming houses
Miscellaneous defects remedied: 213 buildings

Heating By-law..... 4
Rooming House Regulations..... 13
Failure to vacate condemned
premises..... 9
Vermin infestation..... 5
Garbage regulations..... 1
Failure to provide fly screens. 6
Defective cellars..... 4
Defective plumbing..... 3
Hotel Regulations..... 2

47

Convictions..... 34
Dismissals..... 1
Withdrawals..... 12

47

Total fines, including costs
of Court, \$1,025.00

George Kelly,
Principal Inspector,
Housing Division

I N S P E C T I O N S B R A N C H

DIVISION OF SANITATION AND HYGIENE

January to December, 1957

This Division is charged with the routine inspection of offices, workshops and factories; swimming pools; schools; comfort stations; and approximately 440 licensed premises. In addition the division inspects and reports on garbage and refuse in yards and vacant lots and on streets and lanes; workmen's closets; noises; smoke, fumes, dust and odours; infestations of insects and rodents; and on pigeons and poultry. This division collects all water samples for bacteriological analysis.

Routine inspection of workshops and factories is beginning to show good results. There has been considerable improvement in the sanitation and hygiene of workshops and factories. A great deal of defective plumbing has been repaired or has been removed then properly installed. Where plumbing fixtures were insufficient the number of fixtures was increased. Some problems in ventilation, often necessitating a great deal of expense to the proprietor, were solved. A few cases of overcrowding were abated. At present 2,817 workshops and factories receive routine inspections.

Swimming pools continue to receive weekly inspection. At each inspection orthotolidine tests are made for available chlorine; the pH is measured; and a sample of the pool water is taken for bacteriological analysis. This year one new pool - the hydrotherapy pool at the Princess Elizabeth Hospital - was added to our list.

To ensure the safety of our drinking water an average of 40 samples for bacteriological analysis were obtained weekly at strategic points throughout the City.

In the late fall permission was granted to one of our inspectors to shoot pigeons. This work will continue through the coming year.

Because of a shortage of inspectors one inspector was transferred in September from the Division of Sanitation and Hygiene to the Housing Division. At present the staff of the Sanitation and Hygiene Division consists of one principal inspector, one assistant principal inspector and five district inspectors. A perusal of the yearly statistics that follow, shows that the Division made a total of 17,454 inspections and re-inspections and dealt with 5,456 defects.

A. Cross,
Principal Inspector.

THE HISTORY OF THE
REPUBLIC OF THE UNITED STATES
OF AMERICA

The history of the Republic of the United States of America is a story of the growth of a nation from a small colony to a great power. It is a story of the struggles of the people to establish a government of their own, and of the triumphs of the American spirit.

The story begins with the first settlers, who came to the New World in search of a better life. They found a land of opportunity, and they built a nation that was to become the most powerful in the world.

The story continues with the growth of the nation, and the struggles of the people to establish a government of their own. It is a story of the triumphs of the American spirit, and of the struggles of the people to establish a government of their own.

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I N S P E C T I O N S B R A N C H

DIVISION OF SANITATION AND HYGIENE

January to December, 1957.

Licensed:

Inspections

| | |
|-----------------------------------|--------------|
| Billiard parlors..... | 90 |
| Bowling alleys..... | 46 |
| Dance halls..... | 2 |
| Dog kennels..... | 24 |
| Hatcheries and pet shops..... | 50 |
| Junk yards..... | 101 |
| Laundries..... | 164 |
| Massage premises..... | 63 |
| Poultry keepers..... | 25 |
| Roller skating rinks..... | 2 |
| Second hand stores..... | 406 |
| Soap manufacturing..... | 2 |
| Stables-board, feed and sale..... | 10 |
| Tanneries and hide curing..... | 11 |
| Undertaking parlors..... | 20 |
| Total | <u>1,016</u> |

Unlicensed:

| | |
|--|---------------|
| OFFICES, WORKSHOPS & FACTORIES..... | <u>4,954</u> |
| Comfort stations..... | 80 |
| Community clubs..... | 11 |
| Garbage and refuse..... | 3,018 |
| Lanes, streets, yards and vacant lots..... | 4,638 |
| Schools..... | 51 |
| Swimming pools..... | 429 |
| Wading pools..... | 12 |
| Workmen's closets..... | 2,867 |
| Zoning..... | 56 |
| Miscellaneous..... | <u>322</u> |
| Totals | <u>11,484</u> |

Total number of inspections..... 17,454
Interviews..... 1,945
Estimated value of repairs..... \$30,629.00

Complaints..... 991

Notices:

Verbal..... 4,687
Letter..... 209
Informal..... 484
Specification..... 41
Mandatory..... 98
Prosecutions..... 7

Water samples and deliveries..... 2,835

INSPECTIONS BRANCH
DIVISION OF SANITATION AND HYGIENE
January to December, 1957.
(Cont'd)

Defects discovered and dealt with:

| | |
|--|-------|
| Cleanliness, lack of..... | 178 |
| Common drinking cups..... | 157 |
| Covered waste receptacles..... | 11 |
| Dampness..... | 9 |
| Drinking facilities (water)..... | 22 |
| Garbage and refuse..... | 1,834 |
| Gas installations..... | 1 |
| Heating: Lack of..... | 124 |
| " Furnaces and equipment..... | 4 |
| " Chimneys, ducts and piping..... | 2 |
| Lanes, streets, yards and vacant lots..... | 1,370 |
| Lighting: Artificial or natural..... | 36 |
| Noises..... | 30 |
| Overcrowding..... | 5 |
| Plumbing: Lack of..... | 8 |
| " Defective..... | 159 |
| " Illegally installed..... | 28 |
| " Insufficient..... | 158 |
| " Dirty fixtures..... | 152 |
| " Lack of legible signs..... | 12 |
| " No water supply..... | 25 |
| " No hot water..... | 10 |
| Pigeons or poultry, illegal..... | 83 |
| Privacy, lack of..... | 10 |
| Rest Rooms, lack of..... | 7 |
| " " Dirty..... | 8 |
| " " Furnishings..... | 8 |
| " " No hot water..... | 1 |
| Rodents, rats..... | 151 |
| " mice, other..... | 6 |
| Smoke, dust, fumes, odours..... | 316 |
| Soap and towels, lack of..... | 84 |
| Stables..... | 4 |
| Structural defects: Roofs..... | 17 |
| " " Eavestroughing & R.W.L..... | 23 |
| " " Cellars, floors, walls..... | 28 |
| " " Screen doors and windows..... | 2 |
| Swimming pools, wading pools..... | 130 |
| Unlawful occupation..... | 9 |
| Ventilation..... | 34 |
| Vermin: Roaches, other..... | 30 |
| Workmen's closets..... | 101 |
| Zoning..... | 16 |
| Miscellaneous..... | 53 |
| Total | 5,456 |

A. Cross,
Principal Inspector.

CITY HEALTH DEPARTMENT

Summary of Expenditures, 1957
(to nearest dollar)

| | |
|--|------------------|
| (a) Personal Services | \$313,811 |
| (b) Outside Services | 71,197 |
| (c) Materials, Supplies and Repairs . . . | 29,272 |
| (d) Equipment, Additions, etc. | 3,042 |
| (e) Fuel, Water, Light and Power | 271 |
| (f) Other Expenses | 780 |
| (h) Auto Expenses | <u>13,800</u> |
| | <u>\$432,173</u> |

Expenditures by Branches, 1957
(to nearest dollar)

| | <u>Service</u> | <u>Total</u> | <u>Personal</u> | <u>Other</u> |
|------|--|------------------|------------------|------------------|
| C1-1 | Administration & Statistics | \$26,764 | \$23,233 | \$3,531 |
| C1-2 | Communicable & Other Diseases | 54,267 | 25,334 | 28,933 |
| C1-3 | Inspection Services & Laboratory | 105,102 | 91,233 | 13,869 |
| C1-4 | Child Medical Services | 50,227 | 4,149 | 46,078 |
| C1-5 | Child Dental Services | 23,510 | 9,381 | 14,129 |
| C1-6 | Public Health Nursing | 170,536 | 160,481 | 10,055 |
| C1-7 | National Health Grants | <u>1,767</u> | <u>-</u> | <u>1,767</u> |
| | Totals | <u>\$432,173</u> | <u>\$313,811</u> | <u>\$118,362</u> |

Gross Cost per Capita \$1.70

Summary of Expenditures

For the period from 1/1/50 to 12/31/50

| | | | |
|--------------|----------------|----------------|------------|
| Salaries | 100,000 | 100,000 | (a) |
| Benefits | 10,000 | 10,000 | (b) |
| Travel | 5,000 | 5,000 | (c) |
| Supplies | 2,000 | 2,000 | (d) |
| Postage | 1,000 | 1,000 | (e) |
| Telephone | 1,000 | 1,000 | (f) |
| Other | 1,000 | 1,000 | (g) |
| Total | 120,000 | 120,000 | (a) |

Summary of Receipts
(to cover above)

| Source | Amount | Date | Description | Account |
|--------------|----------------|---------------|--------------|-------------|
| 1/1/50 | 100,000 | 1/1/50 | Salaries | 1-10 |
| 1/1/50 | 10,000 | 1/1/50 | Benefits | 1-10 |
| 1/1/50 | 5,000 | 1/1/50 | Travel | 1-10 |
| 1/1/50 | 2,000 | 1/1/50 | Supplies | 1-10 |
| 1/1/50 | 1,000 | 1/1/50 | Postage | 1-10 |
| 1/1/50 | 1,000 | 1/1/50 | Telephone | 1-10 |
| 1/1/50 | 1,000 | 1/1/50 | Other | 1-10 |
| Total | 120,000 | 1/1/50 | Total | 1-10 |

CITY HEALTH DEPARTMENT

Assistance to Health Services under

National Health Grants

Summary of Expenditures, 1957
(to nearest dollar)

| | |
|---|-----------------|
| (a) Personal Services | \$64,695 |
| (b) Outside Services | 5,695 |
| (c) Materials, Supplies and Repairs | 164 |
| (h) Auto Expenses | <u>3,716</u> |
| | <u>\$74,270</u> |

Expenditures by Projects, 1957
(to nearest dollar)

| <u>Service</u> | <u>Total</u> | <u>Personal</u> | <u>Other</u> |
|---|-------------------|-------------------|-------------------|
| Cl-7(2) Registry for Handicapped Children | \$6,118 | \$1,393 | \$4,725 |
| Cl-7(3) } Assistance to Health Services | 68,152 | 63,302 | 4,850 |
| Cl-7(4) } | <u> </u> | <u> </u> | <u> </u> |
| Totals | <u>\$74,270</u> | <u>\$64,695</u> | <u>\$9,575</u> |

